PUBLIC HEALTH REPORTS

VOL. 35

APRIL 2, 1920

No. 14

DRIED MILK POWDER IN INFANT FEEDING.

SAFETY, USEFULNESS, AND COMPARATIVE VALUE—A PRELIMINARY REPORT.

By W. H. PRICE, Surgeon (R), United States Public Health Service.

Introduction.

The appearance of dry milk powder as a common household commodity in the retail shops, and in possession of some city milk dealers, suggests inquiry regarding the safety and usefulness of remade milk from the human nutritive point of view. Normal growth and the development of children depend in large measure on the presence of milk in their diet. Fresh cows' milk is believed to be the best available substitute for mothers' milk. The convenience, in some respects, of whole milk powder invites some mothers to substitute it for natural milk. During periods of shortage certain milk dealers increase their stock by adding remade to natural milk. What influence these substitutions will have on the growth and vitality of children is a matter of considerable public-health importance. The United States Public Health Service, the Boston Baby Hygiene Association, the Boston Health Department, and several other agencies are cooperating to determine something of the nature of that influence.

The fat, sugar, protein, and salts contained in the various brands of dry milk powder can be easily determined in any laboratory equipped to make similar tests of natural milk. Determination of digestibility and the presence of vitamines is a different matter, and these are indispensable requisites in the diet of infants. Regarding the food value of dry milk powder, as indicated by its effect on animals, I am permitted to quote Prof. E. V. McCollum as follows:

"So far as I have been able to determine by experiments on animals, the milk powders which I have employed have essentially the same dietary properties as fresh milk. I hold the view that one can not draw conclusions from experiments on animals as to the value of milk products in infant feeding. The span of life of the rat is rarely longer than 36 months, and any animals with which we deal in the laboratory in our experiments correspond to children of 8 to 10 years or older. We can not possibly experiment with a rat before it is 35 or 40 days old. Furthermore, the bacteriological factor is an important one in nutrition, and it is not safe to conclude that different species will react in quite the same way. The third factor of great

172491°-20--1

importance in this connection is the now well-established principle that the human species requires an antiscorbutic substance, whereas the rat, so far as we can determine, and we have studied it very thoroughly, can not be made to develop scurvy, and apparently does not need this substance in its food supply."

The following brief review of the literature relating to certain phases of the dietary properties of dry milk powder is furnished by Milton V. Veldee, Acting Assistant Surgeon, United States Public Health Service:

"Infant feeding involves more than the simple introduction of measured amounts of carbohydrate, fat, and protein into the baby's alimentary tract. Mother's milk has been provided with certain accessory factors, generally termed 'vitamines,' which are absolutely essential to proper growth and development. When it becomes necessary to resort to artificial feeding the normal vitamine balance is thrown out. This phase of artificial feeding has been extensively investigated with regard to cow's milk, also with pasteurized milk,

and must now be considered from a new angle.

"With the introduction of dried milk powder into the field of complete foods for infant feeding, the question of antiscorbutic and antineuritic vitamines is again revived. The value of whole fresh milk as an antiscorbutic is now well recognized as being very low. Pasteurization further decreases the antiscorbutic value. Hess (1)1 concluded that 'the antiscorbutic value of pasteurized milk is inversely proportional to the time elapsed between pasteurization and consumption.' The time element applies also to raw milk, but to a much greater degree to dried milk powder. The same author concluded that babies fed on pasteurized milk should receive an antiscorbutic from the time they are a few week; old, as there is no reason for allowing the negative balance of 'vitamine' to continue for a lorger period.' Hess and Unger (2)1 contend that the antiscorbutic value of dried milk depends largely upon the method of manufacture. They are not in agreement with Chick and Hume who, working at the Lyster Institute, found that dried milk is devoid of all antiscorbutic value. To substantiate their contention they selected a brand which, in the process of making, is heated to 116° C., for only a few seconds. Such a powder fed in 10 gram quantities (equivalent to 80 cc. of whole milk) caused guinea pigs who had previously developed scurvy to become well and gain weight. In another experiment (3)1 they were able to cause distinct improvement in two babies, who had developed scurvy on a malt soup diet, by substituting a diet of dried milk. Chick, Hume, and Skelton (4)1 present data, as the result of guinea pig experimentation, and conclude that raw milk contains the accessory food factor which protects from scurvy, but that this is present in small amounts and that it is further decreased by heating or drying. From this they conclude, as did Hess, that artificially fed babies should receive some additional antiscorbutic ration. In another article (5)1 they find that dried milk is largely, if not entirely, lacking in antiscorbutic vitamine. This loss they think occurs either during the process of drying or during the storage period which necessarily follows before consumption. Hart,

¹ Figure indicates reference at end of article.

Steenbock, and Smith (6) working with Merrell-Soule powder found that guinea pigs could not eat enough of this powder in addition to hay and rolled oats to prevent scurvy. Barnes and Hume (7)1 ran parallel series of guinea pigs and monkeys on fresh raw milk and fresh dried milk. The results were the same in both sets of animals. Dried milk powder could not protect the animals from contracting scurvy, even in quantities much greater than that required of fresh raw milk.

"This variation in the antiscorbutic value of dried milk powders, as found by the various investigators, is apparently dependent on two factors: (1) The freshness of the milk before drying and the method of drying; (2) the element of time between drying and consumption. We therefore must conclude from the evidence at hand that, as the result of drying and storing, milk loses some, if not all, of its already poor antiscorbutic property; and, further, that babies fed on this food should receive from the beginning additional anti-

scorbutic substance, preferably orange juice.

"From the work thus far reported it would seem that the antineuritic vitamines, fat soluble A and water soluble B, are comparatively thermostable. E. V. McCollum (8) (9) (10) 1 and his associates have conducted a great deal of such research on rats. They find that dried milk has lost none of its antineuritic vitamine. But they found that heating dried milk powder in a double boiler for four hours did cause a considerable decrease in its antineuritic value. Osborne and Mendel (11) summarize their work on rats by saying: 'Indeed we have no reason to believe that the nutrition-promoting properties of milk are lost by brief periods of heating. Comparative trials made with approximately equivalent amounts of protein-free milk (a mixture of dried milk, starch, and lard) and fresh milk not incorporated with the food mixture, have shown substantially the same results.' Hopkins and Neville (12) 1 at an earlier date found similar results. It has been shown by several workers that the vitamine content of milk from various animals varies directly with the vitamine content of the food eaten. Consequently cow's milk will show variations from season to season. Gibson and Concepcion (13) 1 found no antineuritic deterioration in cow's milk through autoclaving for two hours at 125° C. They were working with fowl, dogs, and pigs. They believe that young are born with an excess supply of antineuritic vitamines, and that it is this surplus that carries the baby over until foods other than milk are given.

"Data pertaining to the nutrition-promoting property of dried milk on infants are still lacking. Accurate conclusions can not be drawn from rat, dog, fowl, or pig experimentation because of the differences in the duration of the nursing life of these animals as com-

pared with babies."

The Present Study.

Difficulties beset attempts to demonstrate usefulness and comparative value of different foods with human subjects. and these difficulties are multiplied when infants are involved. Individual tolerance for different foods varies among infants; and their home surroundings, including economic status, medical and nursing super-

¹ Figure indicates reference at end of article.

vision, and the intelligence of their mothers, are also variable factors. To offset these variations the average of a large number of infants must be secured. To eliminate the influence of other foods in their diet, babies less than six months old and who are entirely artificially fed are required. To observe the development, if any, of scurvy, rickets, malnutrition, and predisposition to other diseases, tests extending over several years are desirable. In the case of remade milk, the quality of natural milk used in manufacture, the different processes of drying and remaking, and the length of time of storage before remaking, result in varying qualities in the remade product. To determine the safety and usefulness of all varieties of dry milk powder now on the market would require an exceedingly large number of infants.

The Boston Baby Hygiene Association encourages maternal nursing with such success that, although 6,000 infants less than 1 year old were under its supervision when this study was undertaken, only 196 babies were found to be less than 6 months old and entirely artificially fed. For various reasons, including infrequent attendance of babies at conference, feeble-minded mothers, noncooperative mothers, and refusal by mothers to permit their babies to participate in the study, the number of babies available for the study was further reduced at its beginning. Division of the small number finally available among several brands of dry milk powder would probably have so reduced the numbers included in each group as to preclude collection of valuable data regarding any brand; therefore, only one brand was used in this study, but both whole milk powder and skimmed milk powder were employed. The study has continued only three months, hence only general conclusions can be drawn. The desire to contribute such first-hand information as is available to the members of the International Association of Dairy and Milk Inspectors for their consideration when attempting regulation of the manufacture and sale of dry milk powder and remade milk actuates the reporting of these meager data at this time.

The following is abstracted from a statement by its manufacturers regarding the dry milk powder that was used in this study:

"Natural milk used in the manufacture of this dry milk powder conforms to the requirements for Grade B milk, New York City inspection. Last night's and this morning's milk is received at the factories and processed this morning. It is therefore much fresher than would be the same Grade B milk if delivered as natural milk in New York City. Its acidity is low and no neutralization is needed or practiced. Whole milk powder is prepared from natural milk which contains 3.5 per cent butter fat. Natural milk, whether whole or skimmed, is first pasteurized by the holding process, 145° for 30 minutes, then condensed by the vacuum-pan process, the whole milk to a ratio of about 3½ to 1; the skimmed milk to about 4½ to 1; then dried by the spray process, whereby the condensed milk is

813

April 2, 1920.

injected in a fine spray into a chamber having a hot air blast of about

"The process of evaporation not only reduces the temperature of the air current to 170° or 180° F., but by the rapidity and intensity of its action keeps the individual particles of milk in a cool condition until they are dried; and this assertion is borne out by the fact that the lact-albumen is not coagulated and the enzymes are not destroyed."

The milk powder employed in this study was received direct from the factory at monthly intervals and was therefore comparatively fresh when used. The chemical and bacteriological laboratories of the Boston Health Department made numerous examinations of these dry milk powders and their remade products both before the study began and during its progress. These examinations disclosed the following:

One hundred and sixty-four grams (1½ cupfuls of an ordinary 8-ounce tin measuring cup) of the whole milk powder combined with 1 quart of water produces a reconstituted milk which contains the following constituents: Fat, 4 per cent; sugar, 5.7 per cent; protein, 3.7 per cent. Four per cent fat was desired, and these proportions were employed with one group in the study.

Made in the above proportions, with tap water and clean but not sterilized utensils, this mixture contains between 2,000 and 12,000

bacteria per cc.

Unsalted butter and skimmed milk powder were emulsed by means of a well-known centrifugal apparatus and the resulting product was fed to another group of infants. This reconstructed milk contained the following constituents: Fat, 4 per cent; sugar, 5.1 per cent; protein, 3.1 per cent.

The bacterial count of this product ranged between 35,000 and

45,000 bacteria per cc.

The Boston Baby Hygiene Association gives special attention to the quality of the milk that is fed to babies under its supervision. Nearly all are fed what is known locally as "Grade A" milk. This is an unofficial grade, but special precautions are taken during its production, handling, and distribution. It is pasteurized by the holding process, 145° F. for 30 minutes, at the plant of a large city milk dealer. This milk contains the following constituents: Fat, 4 per cent; sugar, 4.8 per cent; protein, 3.18 per cent. The bacterial count of this milk ranges between 6,000 and 90,000, averaging 32,000 per c. c. Orange juice is usually advised in connection with this diet, but, on account of varying home conditions, little uniformity prevails regarding its introduction.

The following instructions were issued to the nurses of the Boston Baby Hygiene Association at the beginning of the study:

Regarding the Feeding Study.

To ascertain the human nutritive value of powdered milk is of considerable practical importance. Powdered milk is increasing as an article of commerce, it may become a common household commodity, and certain economic phases are connected with it. There are indications that in nutritive value and digestibility, powdered milk compares favorably with natural milk, but that point has not been proved scientifically by feeding powdered milk and natural milk to different groups of individuals who are under observation of the same clinicians and comparing the results.

The United States Public Health Service, the Boston Baby Hygiene Association, the Boston Health Department, and several other agencies are cooperating to ascertain the value of powdered milk from the human nutritive point of view. The data resulting from this cooperation will assist Federal, State, and city food officials in framing and enforcing health regulations regarding manufacture and sale of powdered milk. The information obtained will also assist in controlling morbidity in infants.

Only infants less than six months old and who are entirely artificially fed will be included in the study. Babies on diet will not be included. Orange juice may be given, however, as it is given to babies on Grade A milk. The babies in the study will be divided into three groups, the divisions being made according to the kind of food used.

Group 1 will consist of babies whose modifications are prepared from Grade A milk The constituents of this natural milk are: Fat, 4 per cent; sugar, 4.8 per cent; protein, 3.18 per cent.

Group 2 will consist of babies whose modifications are prepared from whole milk powder which will be reconstituted in the homes. This powder will be kept on hand in the stations and dispensed by the nurses. The powder comes in 5-pound tins, and the nurse should know how long a tin should last. The paper wrapper must be removed and a label marked "Baby Milk Powder" pasted on the tin.

Group 3 will consist of babies whose medifications are prepared from milk which has been reconstructed from unsalted butter and skimmed-milk powder. This preparation will be delivered as is Grade A milk.

The conference physician will order all modifications, as usual.

METHOD OF PREPARING MILK.

For Group 1: Same as usual.

For Group 2: Add 164 grams (equivalent to 1½ cupfuls) of the whole milk powder to 1 quart of cooled boiled water. When measuring the powder, dip it from the tin with a large spoon. The powder is light and should not be packed down. Beat with a Dover egg beater until it is thoroughly mixed. The constituents of this mixture will be approximately as follows: Fat, 4 per cent; sugar, 5.7 per cent; protein, 3.71 per cent. The per cent of sugar will be about 1 higher than in Grade A milk. The conference physician, when ordering modifications that use this mixture as a basis, will take this fact into consideration when ordering the sugar.

For Group 3: The constituents of this reconstructed milk will be approximately as follows: Fat, 4 per cent; sugar, 5.1 per cent; protein, 3.1 per cent. The method of modification will be the same as if Grade A were used.

THE FOLLOWING DATA SHOULD BE RECORDED ON HISTORY CARDS:

- (1) Weight of baby at beginning and at least every two weeks thereafter.
- (2) Strength and amount of feeding, hours of feeding, amount taken in 24 hours, and changes made. (The conference physician may change the food, either to a different modification of the same food or to a different food, but the reason for such change should be recorded. It is hoped that a fair trial will be given each food before changes are made, but the welfare of the children comes first and changes should be made in their interest.)
 - (3) Nature and extent of any illness, and treatment.
- (4) General condition of the baby with special reference to character and changes in stools, general development, activity, teething, and disposition.
- (5) Environment of the baby, with special reference to the mother's intelligence and cooperation.

The babies included in this study should be watched closely, and careful notes must be made after each visit.

This is an unusual opportunity for the baby hygiene association to contribute to the cause of baby welfare and of public health. The success of the study depends largely on the excellent work which the staff nurses can do. Accurate observations and recording are essential to success.

The results of the study will be compiled at the central office at the end of 3 months and in due time be made available to officials charged with regulation of milk supplies and to the medical profession.

Progress of the study.

The nurses at the various conference stations submitted the names of all artificially fed babies who were less than 6 months old to the central office of the association. The director of the association assigned the babies to the various groups, thus eliminating any partiality in the selections. Some delay occurred in beginning the study, with the result that a few of the babies were slightly more than 6 months old when the feeding was actually begun.

Babies were first fed remade milk on August 18, and the study was extended as rapidly as the nurses could visit the homes and demonstrate the preparation of the new foods. Other babies than those assigned at the beginning have been added to the groups, but the tabulations presented here include none of those who were added subsequent to September 24.

It was thought desirable at the beginning, but after the groups were formed, to classify all babies in subgroups such as "Well," "Slightly sick," "Sick," and "Very sick," according to their physical condition, and a fairly definite system for so doing was improvised. In the cases of individual babies some very interesting data developed from this subgrouping, but the numbers included in these subdivisions are so small that it is impractical to draw conclusions from them as subgroups. The subdivisions remain, but are not utilized in this report.

Some difficulty was experienced in obtaining a perfect emulsion of the unsalted butter and powdered skimmed milk. A thin float of fat appeared on the surface of the milk in the necks of the bottles and this difficulty was never entirely overcome. This loss of fat was compensated for, however, so that the remaining emulsion contained the required 4 per cent, and the float was removed and discarded. It is believed that the ingredients and the machine used in this study are capable of producing better results than we obtained, but it is doubtful if better results are likely to be obtained in commercial practice at the present time.

This study was conducted under such practical conditions as are likely to prevail if remade milk should be used for infant feeding in the home; it did not, therefore, afford opportunity for as close

observations and control as would have been possible with hospitalized babies.

A considerable number of mothers refused the invitation to transfer their babies from natural milk to either form of remade milk. The psychology which prompted this refusal prevailed to some, though to a less, extent among the mothers who accepted the invitation. Without material reason for so doing, a number of mothers removed their babies from the remade milk within a few days after beginning its use. The appearance of the floating fat previously referred to was also a disturbing influence to some. A number of the mothers consulted private physicians who, on general principles, advised discontinuance of the remade milk. This was to be expected because the use of remade milk in infant feeding is comparatively new and not universally understood.

Such data as were obtained are contained in the following tables. The columns "Change made by" and "Approval of conference physician or nurse" are taken to be the significant ones of these tables. It is permissible to assume that the conference physicians and nurses would have removed the babies from the remade milk groups on the development of any untoward symptoms that might reasonably be attributed to the remade milk; and yet removal of babies by the conference physicians does not necessarily justify condemnation of remade milk for infant feeding, for the conference physicians took no chances but removed babies on the development of symptoms or for lack of progress which was only remotely attributable to the remade milk. Mothers and private physicians, on the other hand, actuated by the psychology previously referred to (i. e., prejudice against any new form of infant feeding), are likely to remove babies from studies of this kind without any material reason for so doing.

No attempt was made to transfer babies from Group 1 (natural milk) to either of the other groups; therefore, no table "Taken off" is presented for Group 1. In the weight table for Group 1, however, it will be noticed that 9 babies did not return to the conference stations to be weighed during the second period of the study. It is reasonable to conclude that had these babies been on a new and not universally understood diet a considerable proportion of them would have been removed from it.

GROUP 1.-Natural milk.

	Remarks.			Now in hospital.		"Indigestion."			
	9	Oz.	000000	000000000	000	000000	010		y of
	Loss.	Lbs.	000000	0000000000	000	000000	00		per capita gain per day 27 babies=0.629 oz.
eriod.	ū.	Oz.	r-angino		922	6 + 0 0 + 0	04	15	a gain
Entire period	Gain.	Lbs.	www.440	0000000000	4104	-000	0	20	reapit
Er	e.	Days.	000880	58 5 x 28 x 24	000	222222	10	8	
	Time.	Mos. I	0000000	00000	es 23 63	888008	0	89	Average
		Oz.	000000	0000000000	000	000000	00		y of
	Loss.	Lbs.	00000	0000000000	000	00000	00		Average per capita gain per day 15 babies = 0.614 oz.
period.	-	Oz.	4021-00	00000710032	15 14	550000	00	10	a gain
Second period.	Gain.	Lbs.	8000	00000+00000	0	000000	00	19	capit
Se	on.	Days.	80224c	210000000000	480	2+20017	00	-	ge per
	Time on.	Mos. D	8000-0	0000-000-0	-08	0-0000	00	17	Avera
	Loss.	02.	.00000	000000000	000	000000	610		y of
		Lbs.	00000	0000000-000	000	000000	00		per da
riod.		02.	801-870		01-10	2222	04	12	gain.
First period		Lbs.	000000	0000000	24-1	08	0 1	4.7	capita
F	m.	Days. I	1-0 8 1 S	580+50c5u1a	26 4	25 S S S S	10	63	Average per capita gain per day 25 bal les= 3.635 oz.
	Time on. Gain	Mos. D	0000	0	-2-	8-800-	01	40	Avera
		Oz. M	៤ជីងដី១។	. E = x = E = 2 = 0	10	201003	524	13	14.2
inning.	Weight.	Lbs.	=222===	21222222222	× × O	201000	1-2	304	10
At begin	-	-	2-88-1	8800220088	စရ္ကစ	1,110	09	4	20.5
At	Age.	Mos. Days.	*******		61	8866	00.00	103	80
	Number.	W	A-1 A-3 A-3 A-4 A-5 A-6	A -7 A -8 A -10 A -11 A -13 A -13 A -14 A -16 A -17 A -17 A -17 A -17 A -18 A -19 A -16 A	A-18. A-19. A-25.	Sick. A-20. A-21. A-22. A-23. A-24. A-24. A-24. A-26. Usin sick.	A-27 A-28	Total(28 ba- bies)2	Average

Died at Infants' Hospital.

2 Figures in "gain" columns represent net gain.

GROUP 2.—Stayed on whole milk powder

	4	At beginning.	nning.		-	riest period.	eriou.			i,	second period.	erion.		_		2	emine benoa	CIIO.		
Number.	Age.	gi.	Weight.	ght.	Time on.	on.	Gain.	n.	Time on.	on.	Gain.		Loss.		Time on.	on.	Gain.	ė,	Loss.	88.
	Mos.	Days.	Lbs.	Oz.	Mos. I	Days.	Lbs.	Oz.	Mos.	Days.	Lbs.	Oz. 1	Lbs.	Oz.	Mos. I	Days.	Lbs.	Oz.	Lbs.	Oz.
Well.										1						1	-	:		
1-0	φ-	10	23	± ×	010	+0	+ 10		00	22	- 0	13	00	00	010	88	10 10	12	00	
	*	-	14	11	-	R	200	9	0	18	-	100	0	0	101	18	+	0	0	
B 4	00 A	20	25	12	0-	* 7	00 -	ig t	0-	22	00	-0	00	00	240	38	70 00	20	0 0	
"我们的现在分词有价的可以可以可以可以可以有效的,我们的有效,我们的现在分词,我们们的有效,我们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们	4	*	==	*		*	- 01	10	-	18	101	10	00	0	101	121	10	60	0	
	+ 0	22	22	10 :	-	220	-0	* 5	0	22	0.	9 -	00	00	C1 C	000		10	00	
	N =	27.	12 ×	40	N-	Nec	0 01	3 %	-	7	-	- 10	00	00	10 0	31-	* 60	==	00	
8-10	60	9	===	14	-	2	101	6	-	*	0	+	0	0	0	22	**	13	0	
	n •	25	12	10		61	C3 C1	12	00	28	-0	0.0	00	00	20 00	99	20 00	2 20	00	00
													,		1					
	*	œ	10	ac	0	50	1	1-	1	*	0	8	0	c	-	24	60	13	0	
	0 11	X=	e 2	014		**	-0	200	- 0	es a		0.4	00	00	010	12	C) =	= =	00	
	00	3:	10	- 0		=	-	110	0	0	0	0	0	0	-	=	-	24	0	
	*0	27	9:	c.		=	C+ C	-	0-	8		oc :	00	00	210		00 7	22	00	
	- 40	13	2	- 6		=	0 00		.0	8	-	-	0		101	1-1	60	13	00	0
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 CH	12	5 11	12	- 2	- T	- 10	00 90	00	88	0-	- 2	00	00	200	o 2		10	00	
Sick.																				
B-22.	ro =	16	© 0	8-0	cic	cic	→ 0	100	00	25		00	00	00	00	28	10 4	w c	00	
	-	88	9	-	-	12	-	100	00	8	-	10	00	0	101	12	2	20	00	
-26.	m •	0-		13	0	10	0-	6-	- 0	0	0-	200	00	00		6:	- 0	× 5	00	
	* 00	- 10	300	I	-	3.0	0	12	-	-		9	00	0	< 69	9	4 04	201	0	
Very sick.	0	c	E.		-	8		C	•	8	-	•	0	c	c	22	er	67	•	
	-	0	-1-	90	4 (2)	0	-10	60	0	13	0	0	00	000	121	13	0	15	0	
B-31	2	1	10		-	13	-	15	-	-	10	1-	0	0	2	17	-1	9	0	
Total (30 babies)1	110	2	312	12	45	==	7.9	11	25	83	40	12		:	17	*	120	1		:
A verage	co	30	10	6.8	Aver	Average per capita gain per day of 30 babies.	capita 30 bat	gain les.	Aver	age pe	Average per capita gain per day 29 babies==0.844 ounce.	a gain	per da	Jo	Average 30	so per	per capita gain per day of babies=0.903 ounce.	a gain	per dunce.	day o
					1	0 037	Contract.	6		-	-								-	

1 Figures in "gain" columns represent net gain.

GROUP 2.—Taken off whole milk powder. Data while on.

		At be	At beginning.				Firs	First period.		
Number.	Age.	.e.	Wei	Weight.	Time on.	on.	Ga	Gain.		Loss,
	Months.	Days.	Pounds.	Ounces.	Pounds. Ounces. Months.		Days. Pounds. Ounces. Pounds. Ounces.	Ounces.	Pounds.	Ounces.
Well. B-33.	10 10	⊕ ?0	13	42	00	12.0	00	010	00	05
Slightly sick. B-35	0.5 40	21 26	15	-0	10	204		00	00	00
Very sick. B-36	12	15.5	1-51	≪ e₁	00	21	0 1	00	00	00
Total (6 babies) 1	22	15	202	111	60	18	2	14		
Average	33	22.5	11	12.5	Average	net gain p	Average net gain per capita per day of 6 babies=0.426 ounce,	er day of 6	babies=0.	426 ounce.

1 Figures in "gain" columns represent net gain,.

GROUP 3,—Stayed on emulsed milk (unsalted butter and skimmed milk powder).

		At beg	At beginning.				First period.	period.					Second	Second period.					Entire period.	period		
Number.	V	Age.	Wei	Weight.	Time on.	e on.	Gain.	in.	Loss.	188.	Tim	Time on.	C	Gain.	Loss.	SS.	Tim	Time ou.	Gain.	ii.	Loss.	, S
	Mos.	Days.	Lbs.	Oz.	Mos.	Days.	Lbs.	Oz.	Lbs.	.20	Mos.	Days.	Lbs.	Oz.	Lbs.	Oz.	Mos.	Days.	Lbs.	Oz.	Lbs.	Oz.
неи. -1 ** -2 ** -4 ** -5 ** -6 **	10 to to to 4 4	23 - X - 25	8012119	24.020.03		222222	m-mnmm0	2100000	000000	0000000	0000-00	2228×20	0-8-0	4288640	000000	000000	0-000000	8252821	+884680	Noue-41-	000000	000000
Slightly sick. C-9	w.4	26	122	1-10		25	64-	10	00	00	0-1	22		-9	••	00	0101	18	60.00	0 0	00	00
Siek. 2-10 2-11	200	15.3	×13.0	=1-9		222	21-22	0-8	000	000	0-0	28.32	000	252	000	000	200	252	889	200	000	000
Very sick. C-13.	∞ +	12	10	110		25 ca		11 6	00	00	00	28	00	01	00	00	-8	81	214	15	00	• •
Total (14 babies)	55	28	171	=	21	24	32	10			10	13	17	-	0	0	32	1-	48	=		
Average	*	0	12	4.2	Aver	age pe	r capi	0.798 c	Average per capita gain per day of	day of	-	rage p	er capi	Average per capita gain per day 13 babies 3.872 ounce.	per c	lay of		Average per capita gain per day 14 babies=0.822 ounce.	r capi	0.822 o	per d	ay of

Group 2.—Taken off whole milk powder.

			At	At beginning.	dng.			:				Ap-	
Number.	V	Age.	Weig	Weighed.		On D	on powder.	weignt.	gnt.	Condition.	Change made by-	of con- ference physi-	Remarks.
	Mos.	Mos. Days. Lbs.	Lbs.	Oz.	Condition.	Mos.	Mos. Days. Lbs. Oz.	Lbs.	Oz.			cian or nurse?	
B-38. B-38.	-4-	13 2	1-01-	8 T D	Very siek Slightly siek	000	0-0	37	00	Petter	Private physician Motherdo.	No.	
B-402	5	9	14	14	Well	(3)	210	E#	100	No changedodo	Nurse	Yes.	Nurse did not believe baby was
B 41. B 42. B 43.	10 00 00 m	25 28 4	S. 232	S 2 8 4 8	Well. do do do Well (On sugar	0088	တင္တင္တင္	23333	00000	do do do do Siek (overfeeding)	do. Mother do. Mother do. do. do. do. do. do. do. Sink (overleeling). Private physician	SZZZZ	getting powder again. Back on powder again. Error due to mother's misstatement.
B-46 B-47	* **	. 85	_		reported on full milk formula.) Sick Well.	00		33	00	No changedo	No changedo.	N.X.	Related to B-45, same physician. Friend of B-45, same physician.
B-48 B-48 B-35	01-00	:	××55	6 2	Slightly sick Sick Slightly sick Very sick	1 €00	* [©] 82	6 E 8 E	-008	do. do. Better.	Mother Private physician Conference physician Mother	No.	To a fat-free formula.
B-49. B-33.	212142	1022		998	:	€ 0	€	EEB	001-				

* Died following operation for congenital defect.

1 Het weighed.

Few days.

GROUP 3.—Taken of emulsed milk (unsalted butter and skimmed milk powder).

			At	bezinning.				-				Ap- proval	
Number.	Age	še.	Weig	ghed.		On en	On emulsed. Weight	We	ight.	Condition.	Change made by-	of con- ference physi-	Remarks.
	Mos.	Mos. Days. Lbs.	Lbs.	Oz.	Condition.	Mos.	Mos. Days. Lbs. Oz.	Lbs.	Oz.			cian or nurse?	
28 28 29 29 20 21 22 22 22 22 23 24 25 25 25 25 26 27 27 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	@101011011011011011011011011011011011011	285804058270	28122712 827 00	40-400420008	Sick Sightly sick Sightly sick Very sick Sightly sick Sightly sick Sightly sick Sightly sick Very sick Very sick Very sick do	0000	Z0w778020001	5 ⁶ 022x2x2reex51	@0000000000000000000000000000000000000	Locse movements. No change Off No ts well Ado Not doing well Better No change No change	Mother Conference physician do Mother Conference physician do Family moved Mother Conference physician	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Baby lost track of. Do.

Few days.

2 Not weighed.

GROUP 3.—Taken of reconstructed milk (sweet butter and powdered skimmed).—Data while on.

		At beginning.	nning.				First 1	First period.		
Number.	Age.	ě	Wei	Weight.	Time on.	on.	Ca	Gain.	Lo	Loss.
	Months.	Days.	Pounds.	Pounds. Ounces.	Months.	Days.	Pounds.	Pounds. Ounces. Pounds. Ounces.	Pounds.	Ounces.
₩2а.	64	30	12	64	-	15	-	-	0	
Slightly sick.	-	11	7	10	0	19	0	12	0	
Sick. C-17. C-18.	600	ರಿಣನ	112	0 44	-80	15 0 15	0	645-10	000	000
Very sick. C-20. C-21. C-22. C-22. C-23.	8888	00 07 0	11 7 10 10 10	- 0.00∞	000-	1133	000-	0000	0000	1-040
Total (9 babies)1	35	9	66	2		25	5	8		
Average	3	27	11	2	Average	net gain pe	r capita r	Average net gain per capita rer day of 9 babies, 0.313 ounce.	babies, 0.	113 ounce.

¹ Figures in "gain" column represent net gain.

Summary.

			Group 2.			Group 3.	
	Group 1.	Stayed on.	Taken off.	Total.	Stayed on.	Taken off.	Total.
At beginning: Total age average age Total weight. Average weight.	28 babies. 103 mos. 4 days. 3 mos. 20.5 days. 304 lbs. 13 oz. 10 lbs. 14.2 oz.	30 babies. 110 mos. 2 days 3 mos. 20 days 312 lbs. 12 oz.	6 babies. 22 mos. 15 days 3 mos. 25 days 70 lbs. 11 oz. 11 lbs. 12.5 oz.	36 babies. 132 mos. 17 days 3 mos. 20.5 days 383 lbs. 7 oz. 10 lbs. 10.5 oz.	14 babies. 55 mos. 28 days 4 mos. 171 lbs. 11 oz. 12 lbs. 4.2 oz.	9 babies. 35 mos. 6 days 3 mos. 27 days 90 lbs. 5 oz	23 babies. 91 mos. 4 days. 3 mos. 29 days. 271 lbs. 11 lbs. 12 oz.
First period: Time o feeding. Tota gain. Average gain per capita per day.	26 babies. 40 mos. 2 days. 47 lbs. 12 oz. 0.635 oz.	30 babies. 45 mos. 11 days 79 lbs. 11 oz	6 babies. 3 mos. 18 days 2 lbs. 14 oz	36 babies. 48 mos. 29 days 82 lbs. 9 oz. 0.899 oz.	14 bables. 21 mos. 24 days 32 lbs. 10 oz	9 babies. 5 mos. 25 days 5 lbs. 3 oz.	23 babics. 30 mos. 19 days. 37 lbs. 13 oz. 0.658 oz.
Second period; Time of feeding. Total gain Average gain per capita per day.	15 babies. 17 mos. 1 day. 19 lbs. 10 oz. day. 0.614 oz.	25 mos. 23 days 40 lbs. 12 oz 0.844 oz.		25 mos. 23 days 40 lbs. 12 oz.	13 babies. 10 mos. 13 days. 17 lbs. 1 oz.		10 mos. 13 days. 17 lbs. 1 oz. 0.872 oz.
Entire period: Time of feeding. Total gain. Average gain per capita per day.	#7 babies. 60 mos. 3 days. 70 lbs. 15 oz. day. 0.629 oz.	30 babies. 71 mos. 4 days. 120 lbs. 7 oz. 0.903 oz.		26 babies. 74 mos. 22 days 123 lbs. 5 oz.	14 babies. 32 mos. 7 days 49 lbs. 11 oz.	23 babies. 41 mos. 2 days. 54 lbs. 14 oz. 6.713 oz.	23 babies. 41 mos. 2 days. 54 lbs. 14 oz. 0.713 oz.

The weight tables give individual and average ages and weights at the beginning of the study; individual and total time, in months and days, of feeding; individual gain or loss, in pounds and ounces, total gain, and average gain per baby per day. In the cases of Groups 2 and 3 separate tables are presented of such comparative weights as were obtained of the babies who were subsequently "Taken off." All comparative weights taken previous to October 22 were compiled and are here presented as "Time on," and "Gain" or "Loss" as of the "First period." Comparative times of feeding and comparative weights that were taken after October 22 and before November 13 are here presented as of the "Second period." Comparative times of feeding and comparative weights taken between the beginning of the study and November 13 are presented as of the "Entire period."

The averages of all groups, including age and weight at beginning, "Stayed on" and "Taken off," time on, total gain, and average gain per baby per day for all periods, are carried forward into a summary.

Satisfactory laboratory analyses and experiments with animals, the freedom from immediate dangers, and the increase in weight following the use of different foods used in infant feeding, are not sufficient criteria to warrant final conclusions relative to the comparative values of the different foods; nor, as has been said, are final conclusions warranted until the effects of use of different foods have been studied for a prolonged period. However, the opinions of trained and experienced workers—in this case the nurses of the Boston Baby Hygiene Association—who have had intimate contact with the units which go to make up a study of this kind, are of some value when considering the relative values of different foods.

Each nurse who had supervised one or more babies in Groups 2 or 3 (there were about 20 such nurses) was asked to express a conservative opinion on November 12 regarding the progress, with special reference to general development, activity, teething, and disposition, of such babies as she had supervised. In asking these opinions the point was emphasized, as it had been at all times during the study, that those who were cooperating in the study were not interested to determine superiority for any kind of food, but were only interested to secure facts as they exist. In order that these opinions might be reduced to a comparable basis, the nurses were asked to state how each baby had progressed on remade milk in comparison with the progress the same baby had made on its former diet (using the terms "Better," "No change," or "Not so well"), or with the progress similar babies are likely to accomplish on natural milk.

In this preliminary report the foregoing data—viz, laboratory analyses; removals from the powder, with special reference to the attitude thereto of the physicians and nurses of the Boston Baby

Hygiene Association; gain in weight per baby per day; and the judgment of the nurses as to the general development, activity, teething, and disposition of the babies in Groups 2 and 3—are used in drawing preliminary conclusions relative to the safety, usefulness, and comparative value of remade milk, of the brand employed, in infant feeding.

Conclusions From This Study.

Safety.—Such laboratory analyses as were made indicate that the dry milk powders and their remade products, used in this study, are safe for infant feeding.

Two babies died during the period of the study. Of these, one baby, a member of Group 2 (whole milk powder), died following an operation for a congenital defect. The other, a twin, and a member of Group 1, was badly nourished at the time she was placed on natural

milk: she died of indigestion.

Only one other baby, a member of Group 2, developed serious illness. This illness resulted from misinformation furnished by the mother, who informed the conference physician that her baby was being fed on a milk mixture, when, as a matter of fact, she had been feeding him on a proprietary food which consists almost entirely of sugar. The conference physician prescribed whole milk powder in a strength corresponding with natural milk, as stated by the mother. A serious case of overfeeding resulted, but was followed by recovery.

These deaths and the serious illness are not considered to be significant so far as the foods used are concerned. Such other illnesses

as occurred were slight and transitory.

In group 2, 49 babies in all were fed milk that had been reconstituted from whole milk powder. Nineteen babies were removed from this group. Two removals have already been accounted for. For various reasons, or for no material reason, 12 babies were removed within a few days, and 3 more after longer periods, by their mothers or by private physicians. Development of illness attributable to the milk powder was not a significant reason for these removals. Only 2 babies were removed from the powder by conference physicians or nurses. The conference physician removed 1 baby for the purpose of putting it on a fat-free formula. A conference nurse removed the other baby because other members of the family were using the milk powder.

The circumstances attending the removal of babies from the whole milk powder employed in this study furnish no indication that it is unsafe for infant feeding.

In Group 3, 28 babies in all were fed on remade milk which had been reconstructed from unsalted butter and skimmed milk powder. Difficulties experienced in making daily deliveries of this mixture. account in larger measure for fewer babies being included in this group than in Group 2.

Fourteen babies were removed from Group 3. No baby in this group died, nor did any become seriously ill. The families of 2 moved and the babies were lost sight of; 5 were removed by their mothers for reasons that can not be considered adverse to the feeding mixture; conference physicians removed 7 for the purpose of putting them on other feeding mixtures.

The circumstances attending the removal of babies from the remade milk obtained by reconstructing unsalted butter and the skimmed milk powder employed in this study furnish no indication that the remade milk is unsafe for infant feeding; the circumstance that 50 per cent of the removals from reconstructed milk were approved by the conference physicians, as compared with 10 per cent in the case of milk that had been reconstituted from whole milk powder, justifies the conclusion that these forms of remade milk differ in their effects when fed to infants.

Usefulness.—In Group 1, 27 babies were fed on modifications of natural milk for a combined period of 60 months and 3 days; their combined gain in weight was 70 pounds and 15 ounces; the average gain per baby per day was 0.629 ounces.

In Group 2, 36 babies were fed on modifications of whole milk powder for a combined period of 74 months and 22 days; their combined gain in weight was 123 pounds and 5 ounces; the average gain per baby per day was 0.880 ounce.

In Group 3, 23 babies were fed on modifications of milk that had been reconstructed from unsalted butter and skimmed milk powder, for a combined period of 41 months and 2 days; their combined gain in weight was 54 pounds and 14 ounces; the average gain per baby per day was 0.713 ounces

While gain in weight alone is not sufficient evidence on which to base final conclusions relative to the adequacy of a food for infant feeding, and while it may prove that excess gain over that which has been considered normal may not be desirable, the foregoing figures seem to indicate that the whole milk powder and the skimmed milk powder and unsalted butter employed in this study are useful in infant feeding, and, further—and especially in the case of the whole milk powder, and in the case of babies who are undernourished and who digest natural milk badly—these remade milks may have points of distinct advantage in infant feeding. The figures also warrant the conclusion that reconstituted, reconstructed, and natural milks differ in their effects when fed to infants; and that reconstituted and reconstructed milks should be labeled and sold for what they are and that they should not be substituted and sold for natural milk in a manner to deceive the purchaser.

The figures further confirm the previous conclusion of the safety of this brand of remade milk in infant feeding.

Comparative Value.—The opinions expressed by the nurses with respect to the comparative value of reconstituted, reconstructed, and natural milk in infant feeding, and with special reference to the influence of these different milks on the babies' general development, activity, teething, and disposition, strengthen the conclusions already drawn—viz, that reconstituted and reconstructed milks, of the brand employed, are safe and useful for infant feeding, and that in certain respects, particularly in the case of reconstituted milk, and in the cases of babies who digest natural milk badly, they may have points of distinct advantage. The opinions of the nurses further strengthen the conclusion previously arrived at that reconstituted, reconstructed, and natural milks differ in their effects when fed to infants.

The facilities available for this study permitted the use of only one brand of dried milk powder. Therefore no conclusions are drawn relative to the safety, usefulness, advantages, or disadvantages of other brands of dried milk powder.

References.

- Infantile Scurvy—A Study of its Pathogenesis. A. F. Hess. Amer. Jour. of Dis. of Children, 14, 337, Nov. 1917.
- The Effect of Age, Heat, and Reaction on Antiscorbutic Foods. A. F. Hess and Unger. J. Biol. Chem. 38, 293, June 1919.
- Factors Affecting the Antiscorbutic Value of Foods. A. F. Hess and Unger. Am. Jour. Dis. Child. 17, 221, April 1919.
- Antiscorbutic Value of Milk in Infant Feeding. Chick, Hume, and Skelton. Lancet 1, 1, Jan. 1918.
- Antiscorbutic Value of Cow's Milk—Fresh, Pasteurized, and Dried. Chick, Hume, and Skelton. Biochem. Jour. 12, 131, 1918.
- Effect of Heat on Antiscorbutic Properties of Some Milk Products. Hart, Steenbock, and Smith. J. Biol. Chem. 28, 3, 5, June 1919.
- Comparison Between the Antiscorbutic Properties of Fresh, Heated, and Dried Cow's Milk. Barnes and Hume. Lancet 2, 323, Aug. 23, 1919.
- The Nature of the Dietary Deficiencies of Rice. McCollum and Davis. Jour. Biol. Chem. 23, 181, 1915.
- The Cause of the Loss of the Nutritive Efficiency of Heated Milk. McCollum and Davis. Jour. Biol. Chem. 23, 247, 1915.
- The Relation of the Unidentified Dietary Factors, the Fat-Soluble A and the Water-Soluble B, of the Diet to the Growth-Promoting Properties of Milk. McCollum, Simmonds, and Fitz. J. Biol. Chem. 27, 30, Oct. 1916.
- Milk as a Source of Water-Soluble Vitamine. Osborne and Mendel. J. Biol. Chem. 34, 537, June 1918.
- 12. Hopkins and Neville. Biochem. Jour. 7, 97, 1913.
- Influence of Fresh and Autoclaved Milk on the Development of Neuritis in Animals. Gibson and Concepcion. Philippine J. Sc. 11, 119, May 1916.

MODEL MOSQUITO ORDINANCE.

The United States Public Health Service recommends that State and local health authorities secure, wherever practicable, as an important feature of any campaign against malaria, the enactment of ordinances for the prevention of mosquito propagation.

The following model ordinance is presented with the suggestion that in every case it be examined by competent local counsel for changes in form, or in substance if necessary, dictated by special

constitutional, legislative, or charter considerations.

It is manifestly impossible to prepare forms of ordinances which will in the original wording exactly fit the varying local requirements. The purpose of the model malaria ordinance is only to suggest in substance desirable and effective legislation; changes in titles, enacting clauses, penalty provisions, and other formal administrative details generally may be found necessary.

It should be stated that these provisions are suitable for a municipality only. It should also be noted that they provide for mosquito control in general and are aimed especially against the house mosquito.

This ordinance, with minor alterations, has been incorporated in the cooperative program for the control of malaria, which is being conducted by the United States Public Health Service, the State and local health authorities, and the International Health Board in a number of Southern States.

MODEL ORDINANCE.

SECTION 2. Collections of water in which mosquitoes breed or are likely to breed are those contained in ditches, ponds, pools, excavations, holes, depressions, open cesspools, privy vaults, fountains, cisterns, tanks, shallow wells, barrels, troughs (except horse troughs in frequent use), urns, cans, boxes, bottles, tubs, buckets, defective house roof gutters, tanks of flush closets, or other similar water containers.

Section 3. The natural presence of mosquito larvæ in standing or running water shall be evidence that mosquitoes are breeding there.

Section 4. Collections of water in which mosquitoes breed or are likely to breed shall be treated by such one or more of the following methods as shall be approved by the health officer:

(a) Screening with wire netting of at least 16 meshes to the inch each way, or any other material which will effectually prevent the ingress or egress of mosquitoes.

- (b) Complete emptying every seven days of unscreened containers, together with their thorough drying or cleaning.
- (c) Using a larvicide approved and applied under the direction of the health officer.
- (d) Covering completely the surface of the water with kerosene, petroleum, or paraffin oil once every seven days.
- (e) Cleaning and keeping sufficiently free of vegetable growth and other obstructions, and stocking with mosquito destroying fish.
- (f) Filling or draining to the satisfaction of the health officer.
- (g) Proper disposal, by removal or destruction, of tin cans, tin boxes, broken or empty bottles, and similar articles likely to hold water.

Section 5. In case the person responsible for the condition of premises on which mosquitoes breed or are likely to breed fails or refuses to take necessary measures to prevent their breeding within three days after notice in writing has been given him by the health officer, or within such longer time after such notice as may be specified in the notice, the said person responsible shall be deemed guilty of a violation of this ordinance; and for each day after the expiration of three days from the day on which such notice is given him, or for each day after the expiration of the time specified in the notice, as the case may be, that the person responsible fails or refuses to take such measures, the said person responsible shall be deemed guilty of a separate violation of this ordinance, and in case of such failure or refusal of the person responsible the health officer is authorized to take necessary measures to prevent the breeding of mosquitoes, and all necessary costs incurred by the health officer for that purpose shall be a charge against the person responsible.

Section 6. For the purpose of this ordinance the person responsible for the condition of any premises is the person using or occupying the same; or, in case no person is using or occupying the premises, the person who by law is entitled to the immediate possession of the same; or, in case the premises are used or occupied by two or more tenants of a common landlord, or form grounds appurtenant to a house occupied by two or more tenants of a common landlord, then the landlord; each tenant, however, is responsible for that part of the premises which he occupies to the exclusion of the other tenants: Provided, That, in case the premises are occupied by a tenant under a yearly or monthly tenancy, or under a lease for not more than a year, or under any lease whereby the lessor is expressly or impliedly obligated to keep the premises in repair, and the collection of standing or flowing water in which mosquitoes breed or are likely to breed is owing to the disrepair of the building or buildings, or to any natural

quality of the premises, or to any condition that existed at the time when the tenant entered into possession, or to anything done on the premises by the landlord during the existence of the tenancy or lease, then, and in such case, the landlord is the person responsible: *Provided further*, That any person who has caused to exist on any premises of which he is not the owner, landlord, occupant, or tenant any collection of water in which mosquitoes breed or are likely to breed is responsible, as well as the owner, landlord, tenant, or occupant, as the case may be.

SECTION 7. For the purpose of enforcing the provisions of this ordinance, the health officer, or his lawful subordinate, may at all reasonable times enter in and upon any premises within his jurisdiction.

SECTION 8. Any person found guilty of a violation of this ordinance, as described in section 5 hereof, shall be punished by a fine of not less than one dollar (\$1) and not more than twenty-five dollars (\$25).

SECTION 9. This ordinance shall be in full force and effect on and after the day from the day on which it is approved.

DIVISION OF VENEREAL DISEASES, FEBRUARY, 1920.

Table I shows the number of new admissions during the month of February to the venereal disease clinics operating under the joint control of the United States Public Health Service and the State boards of health.

Table II shows the number of cases of gonorrhea, syphilis, and chancroid reported by the State boards of health during February. Seven States have not submitted reports. The other States for which no figures are given have reported, but due to discrepancies it has been impossible to include them.

Table I.—Number of cases of venereal diseases admitted during the month of February, 1920, to the venereal-disease clinics operating under the joint control of the United States Public Health Service and the State boards of health.

State.	Total cases.	Gonorrhea.	Syphilis.	Chancroid.	State.	Total cases.	Gonorrhea.	Syphilis.	Chancroid.
Alabama	867	360	467	40	Indiana	643	342	272	29
Arizona	5 166	73	3 86	7	Iowa	101 206	94	54 109	3
California	363	135	225	3	Kentucky	107	44	57	6
Coloração	57	34	18	5	Louisiana	241	87	135	19
Connecticut 1					Maine	19	6	13	
Delaware 1					Maryland	160	121	28	11
District of Columbia					Massachusetts	461	217	243	1
Florida	195	61	119	15	Michigan	88	25	59	4
Georgia	366	186	147	33	Minnesota	97	52	38	7
Idaho 2					Mississippi	101	34	65	2
Illinois	604	267	320	17	Missouri	508	272	213	23

Report not received.

² No clinics

Table I.—Number of cases of venereal diseases admitted during the month of February, 1920, to the venereal-disease clinics operating under the joint control of the United States Public Health Service and the State boards of health—Continued.

State	Total cases.	Gonorrhea.	Syphilis.	Chancroid.	State	Total cases.	Gonorrhea.	Syphilis.	Chaneroid.
Montana ¹ Nebraska ¹ Nevada			8		South Carolina South Dakota Tennessee 1	604 16	230	336 7	38
New Hampshire. New Jersey. New York. New Mexico North Carolina I. North Dakota. Ohio. Oklahoma.	22 189 739 3 21 310 311	14 93 306 3 16 152 135	93 405 5 146 143	3 28 12 33	Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming	66 18 338 33 32 28 2	35 6 143 17 6 12	27 12 167 14 25 15 2	28 2 1 1
Oregon PennsylvaniaRhode Island 1	28	12	16				3,645	4,092	378

¹ Report not received.

Table II.—Summary of cases of venereal diseases reported by the State boards of health for the month of February, 1920.

State.	Total cases.	Gonorrhea.	Syphills.	Chancroid.	State,	Total cases.	Gonorrhea.	Syphills.	Chancrold.
Alabama	1,273	580	634	59	Nevada				
Arizona					New Hampshire		39	29	
Arkansas		250	173	30	New Jersey		163	151	5
California	777	379	398		New York		584	1,868	
Colorado	253	174	67	12	New Mexico		40	6	2
Connecticut 1					North Carolina 1				
Delaware 1					North Dakota	71	57	14	
District of Columbia					Ohio				
Florida		111	175	16	Oklahoma		172	70	. 19
Georgia	833	399	400	34	Oregon				
daho	57	28	27	2	Pennsylvania				
Illinois	1,760	966	724	70	Rhode Island 1				
Indiana	730	366	343	21	South Carolina			542	66
lowa	251	188	55	8	South Dakota		64	20	
Kansas	248	132	111	5	Tennessee 1				
Kentucky	381	172	199	10	Texas				
Louisiana	491	309	129	53	Utah		75	11	2
Maine		97	35	2	Vermont		24	21	
Maryland					Virginia		158	169	31
Massachusetts	681	465	216		Washington		220	69	5
Michigan	1,918	965	921	32	West Virginia				
Minnesota	695	424	264	7	Wisconsin		206	46	9
Mississippi		137	87	13	Wyoming	72	38	32	2
Missouri	574	327	219	28		-			_
Montana 1			*****		Total	17,525	8,757	8,225	543
Nebraska 1	******	*****	*****	*****					

¹ Report not received.

INFLUENZA PREVALENCE IN THE UNITED STATES.

The number of cases of influenza reported to the Public Health Service has continued to decrease, as shown by the accompanying table. The reports of deaths from influenza and pneumonia also show a decrease for the week ended March 27 as compared with previous weeks. There is no indication of a recrudescence of influenza in the reports received to date.

Influenza case reports. Number of cases of influenza occurring in various States as reported to the Public Health Service by State health departments.

[States omitted are those from which no reports have been received. Blank spaces indicate that no report was received for the week. These reports are preliminary and subject to change.]

State. Alabama. Arkansas. Salifornia. Connecticut Delaware. District of Columbia.	Jan- uary. 31	7	Feb	ruary.			Με	arch.	
Arkansas California. Connecticut Delaware. District of Columbia.	203	7	14	1	1	-			
Arkansas California. Connecticut Delaware. District of Columbia.	203	-		21	28	6	13	20	27
California. Connecticut. Delaware. District of Columbia.		1,296	3,236	2,366	3,603	- 3,885	1,047	829	47
Connecticut Delaware District of Columbia	. 595			2,793	1,690	2,576	2,055	835	344
Delaware District of Columbia	. 7, 133	13,660	11,887	2,793 7,420	5,527	918	496	582	39
District of Columbia	4,664	5,666	4,868	2,771	1, 183	571	229	121	4
District of Columbia	. 21	86	78	43	36	50	33	13	
Florida	. 1,616	557	298	104	36	21	6	6	
	1,547	1,581	1,735	1,420	1,026	580	413	298	44
Georgia	617	3,256	5, 411	7,809	8, 210	3,677	3,087	2,066	1,573
daho	2,783	2,304							
llinois		30,330	23,037	7,237	3,062	1,344	453	430	319
ndiana		7,811	7,503	3,904	2,038	1,289	1, 184	412	140
owa	3,960	5,070	1,981	869	170	86	96	22	59
Kansas	8,582	16,960	17,699	10,026	3,590	3,332	1,551	1.290	52
Kentucky	878	2,536	6,067	4, 295	8,584	4,099	3,640	2,243	
ouisiana	763	1,901	3,690	3, 153	3,363	2,541	1.982	1,045	513
faine	387	936	3,942	3,702	2, 134	1, 130	1, 105	848	73
faryland 1		4,935	8,942	4,758	3, 184	2.052	1,206	747	429
Massachusetts	4,475	9,730	10,727	5,601	2,376	1,144	490	254	147
dichigan		14, 201	13,470	6,672	3,861				
dinnesota		11,397	7,555	4,213	1,447	692	406	130	57
Mississippi		2 2,761	4,014	3,382	2,475	2 1,798	2,230		539
dissouri	4,043	5,359	1,696	466					
dontana		1,847	1,650	1,400	348	511	206	82	49
Nebraska	1,815	3,998	6,048	3,272	2,492	2,007	834	849	269
New Hampshire	382	460	701	383	488				
New Jersey	7.365	9,603	5,897	2,798	1,043	764	365	171	81
New Mexico. New York (exclusive of New	260	1,576	1,166	€32	204	186	97	90	36
New York (exclusive of New	1		1						
York City)	4,755	11,616	13, 259	11,201	5,330	4,030	2,434	1,081	493
New York City		21,388	8,091	3,030	1,069	489	381	230	151
orth Carolina	3,356	12,892	25, 571	18, 439	8,398	3,800	1,605		
orth Dakota		946	497	* 178					
hio		10,479							
regon		1,042	1,318	1,971	2 495	8 303			
ennsylvania		16,090	13,324	9,365	2 1, 723				
outh Carolina	1,661		3,916	2,846	1,716	971	678	523	236
outh Dakota		5,042	4,976	3,047	1,649	495	120	267	53
ennessee		2,331	2 1,432						
exas		11, 265	6,788	1,035	588	134	55		
tah		1,489	228	96			******		
ermont		272	796	1,314	1,071	481	470	158	85
irginia	3,097	6,318	2,934	1,512	3 1,073		******		
Vashington		6, 451	6,426	4,596	1,559	1,260	271	93	43
Vest Virginia		4,732	6,308	3 1,848	780				
Visconsin	6,739	14,328	10,310	6,274	3, 131	994	554	503	153
Vyoming	1,372								*******
Total	149 136	295, 433	285, 981	158, 294	90,752	48, 219	29,779	16,218	7 700
umber of States reporting	32	43	41	40	37	32	31	28	7,726

¹ Week ended Friday.

^{*} Five days only.

³ Six days only.

ANNUAL MEETING OF AMERICAN ASSOCIATION OF INDUSTRIAL PHYSICIANS AND SURGEONS.

The Fifth Annual Meeting of the American Association of Industrial Physicians and Surgeons will be held in New Orleans, La., on April 26 and 27—the week of the meeting of the American Medical Association.

According to the notice recently sent out by Dr. Francis D. Patterson, secretary-treasurer of the association, the morning of Monday, April 26, is to be devoted to executive session. Monday afternoon and all of Tuesday will be given over to the reading of papers, discussions, and the reports of the various committees appointed at the last meeting.

Notice is given that an amendment to section 4, Article III (annual membership dues) will be voted on; also an amendment relative to the annual selection of the next meeting place.

CONFERENCE OF HEALTH AUTHORITIES.

ANNUAL CONFERENCE OF STATE AND TERRITORIAL HEALTH AUTHORITIES WITH THE UNITED STATES PUBLIC HEALTH SERVICE TO BE HELD IN MAY, 1920.

The Eighteenth Annual Conference of State and Territorial Health Authorities with the United States Public Health Service will be held in Washington, D. C., May 26 and 27, 1920. In a letter recently sent out by Surg. Gen. Cumming to the State and Territorial health officers it was urged that each State be represented by an official delegate, as important State and National public health matters will be brought before the conference for action. The conference will open at 10 a. m. on May 26.

DEATHS DURING WEEK ENDED MAR. 20, 1920.

[From the "Weekly Health Index," Mar. 23, 1920, issued by the Bureau of the Census, Department of Commerce.]

Deaths from all causes in certain large cities of the United States during the week ended Mar. 20, 1920, infant mortality (per cent), annual death rates, and comparison with corresponding week of preceding years.

	Population		nded Mar. 1920.	Average		of deaths 1 year.
City.	July 1, 1918, esti- mated.	Total deaths.	Death rate.1	annual death rate per 1,000.2	Week ended Mar. 20, 1920.	Previous year or years.2
Albany, N. Y	* 113,344	32	14.7	C 20. 8	3.1	C 13.3
Atlanta, Ga	201,732	76	19.6	C 13. 2	14.5	C 3.9
Baltimore, Md	4 669, 981	209	16.3	A 21.0	12.0	A 12.7
Birmingham, Ala	197,670	76	20.0	A 17.2	7.9	A 11.5
Boston, Mass	785, 245	251	16.7	A 18.3	20.7	A 13.6
Buffalo, N. Y	473, 229	136	15.0	C 15. 9	20, 6	C 15.3
Cambridge, Mass	111,432	38	17.8	A 15.6	31.6	A 9.2
Chicago, Ill.	2,596,681	733	14.7	A 17.3	16.6	A 19. 1
Cincinnati, Ohio	* 401, 158	140	18.2	C 20.0	8.6	C 7.5
Cleveland, Ohio	810,306	220	14.2	C 13.5	17.7	C 10.0
Columbus, Ohio	225, 296	83	19.2	C 18.3	16.9	C 16.5
Dayton, Ohio	130,655	33	13.2	C 14.4	39.4	C 16. 7
Denver, Colo		76			7.9	0 1011
Detroit, Mich		256			22.7	
Fall River, Mass	128,392	39	15.8	C 21.9	25.6	C 22. 2
Grand Rapids, Mich	135, 450	41	15.8	C 15.8	9.8	C 7.3
Indianapolis, Ind	290,389	90	16.2	C 16.2	10.0	C 16. 7
Jersey City, N. J.	318,770	87	14.2	C 22.4	24.1	C 13. 9
Kansas City, Mo	313, 785	116	19.3	C 24.6	10.3	C 5.4
Los Angeles, Calif	568, 495	177	16.2	A 14.3	7.9	A 7.4
Louisville, Ky	8 234, 891	75	16.6	C 21.1	6.7	C 5.1
Lowell, Mass	109, 081	41	19.6	A 18.7	17.1	A 17.5
Memphis, Tenn		62		C 20, 2	16.1	C 3.3
Milwaukee, Wis	a 457, 147	123	14.0	A 15.0	24.4	A 25.4
Minneapolis, Minn	383,442	86	11.7	C 12.8	15.1	C 18. 1
Nashville, Tenn	119, 215	53	23. 2	C 24.5	11.3	C 8.9
Newark, N. J	428,684	142	17.3	C 21.3	21.1	C 16.6
New Haven, Conn	154,865	54	18.2	C 18.9	18.5	C 14.3
New Orleans, La.	382, 273	160	21.8	A 22.0	11.9	A 8.3
New York, N. Y	5, 215, 879	1,554	15.5	C 22.5	18.0	C 12.8
Oakland, Calif	214, 206	47	11.4	A 12.3	12.8	A 8.4
Omaha, Nebr	180, 264	41	11.9	C 13.9	24.4	C 12.5
Philadelphia, Pa	1,761,371	597	17.7	2 18.1	13.7	2 13. 5
Pittsburgh, Pa	593,303	184	16.2	C 20.0	21.2	C 17.1
Portland, Oreg		65			15.4	C 9.8
Providence, R. I	263,613	69	13.6	C 17.2	18.8	C 21.8
Richmond, Va	160,719	46	14.9	C 17.2	19.6	C 11.3
Rochester, N. Y	264,856	63	12.4	C 15. 2	15.9	C 22.1
St. Louis, Mo	779, 951	209	14.0	C 16.8	11.0	C 10.7
St. Paul, Minn	234, 595	66	14.7	C 12.3	6.1	C 11.5
San Francisco, Calif	478,530	137	14.9	C 19.1	6.6	C 4.0
Seattle, Wash		83			10.8	A 11.2
Spokane, Wash		28			3.6	C 10.3
Syracuse, N. Y	* 171,647	49	14.9	C 14.9	14.3	C 19.6
Toledo, Ohio	⁸ 243, 109	61	13.1	A 14.5	16.4	A 14.8
Washington, D. C	8 437, 414	149	17.8	A 19.3	12.1	A 8.9
Worcester, Mass	173,650	55	16.5	C 14.4	14.5	C 18.8

Summary of information received by telegraph from industrial insurance companies for week ended Mar. 20, 1920.

Policies in force	42, 645, 255
Number of death claims	
Death claims per 1 000 policies in force appual rate	14.1

Annual rates per 1,000 estimated population.
 "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1917.
 1920 enumeration, subject to revision.
 Population estimated as of July 1, 1919.
 Data are based on statistics of 1915, 1916, and 1917.

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended Mar. 27, 1920.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

ALABAMA.	ases.	CONNECTICUT—continued.	ses.
Cerebrospinal meningitis		Chicken pox	
Chicken pox	_	Diphtheria:	
Diphtheria		Fairfield County—Bridgeport	9
Influenza		Hartford County—	-
Malaria	_	Hartford	8
Measles	70	New Britain	9
Mumps,	5	Scattering.	36
Pneumonia (all forms)	34	German measles	
Scarlet fever	21	Influenza	47
Smallpox	49	Lethargic encephalitis	7
Tuberculosis (pulmonary)	21	Measles:	
Typhoid fever	11	Fairfield County-Stamford	12
Whooping cough	22	Hartford County-Hartford	15
ARKANSAS.		New Haven County-New Haven	35
***************************************		New London County—	
Chicken pox		New London	100
Diphtheria		Stonington	17
Influenza		Scattering	63
Malaria	36	Mumps	33
Measles	87	Pneumonia	10
Pellagra	5	Scarlet fever:	
Poliomyelitis		Fairfield County-Bridgeport	17
Pneumonia	8	Hartford County-New Britain	10
Scarlet fever	5	New Haven County—	
Smallpox	40	New Haven	10
Tuberculosis	11	Waterbury	29
Whooping cough	33	Scattering	34
CALIFORNIA.		Septic sore throat	1
***************************************	007	Tuberculosis	40
Influenza Smallpox:	397	Whooping cough	66
Long Beach	13	DELAWARE.	
Los Angeles County	15	Chieken pox	1
Scattering	43	Measles	
Typhoid fever	5	Mumps	3
CONNECTICUT.		Pneumonia	3
		Scarlet fever	2
Cerebrospinal meningitis:		FLORIDA.1	-
Groton	1	Diphtheria	6
Wallingford	1	Influenza	440

1 Some delayed reports included.

CURRENT STATE SUMMARIES—Continued.

Telegraphic Reports for Week Ended Mar. 27, 1920-Continued.

FLORIDA—continued.		Indiana—continued.	
-	3	Scarlet fever: Ca	ses.
Leprosy	-	Elkhart County	37
Malaria		Marion County	
Pneumonia		Scattering	
Scarlet fever	3	Smallpox	
Smallpox	7	Typhoid fever	
Typhoid fever	15	Andrews County-Epidemic.	U
GEORGIA.		matews county - Epideime.	
		IOWA,	
Chicken pox	35	Cerebrospinal meningitis:	
Conjunctivitis (acute infectious)	2	Colfax	2
Diphtheria	10	Chicken pox	2
Dysentery (bacillary)	3	Diphtheria	-
German measles	4	Influenza:	1.1
Hookworm	27	Carroll County	21
Influenza	573	Fairfield	1
Malaria	44	Keokuk County	10
Measles	86	Little Rock	16
Mumps	3	Pottawattamie County.	
Paratyphoid fever	1	Measles	11
Pneumonia (lobar)	75	Scarlet fever.	21 60
Scarlet fever	13	Smallpox:	60
Septic sore throat	8		-
Smallpox	37	Cedar Rapids	7
	25	Davenport	13
Typhoid fever	5	Mason City	8
	38	Scattering	
	-	Whooping cough	5
Diphtheria:		KANSAS.	
Chicago 1	31	Diphtheria	41
	16	Influenza	521
Influenza:		Scarlet fever	
	92	Smallpox	
Scattering	~-		
Lethargic encephalitis:	.	LOUISIANA.	
Chicago	3	Cerebrost inal meningitis	1
Pneumonia:	9	Diphtheria	16
Chicago	20	Influenza	513
	10	Pneumonia	
Poliomyelitis	2	Poliom velitis	1
Scarlet fever:	-	Smallpox	82
Chicago	00	Typhoid fever	5
Livingston County—Pleasant Ridge Twp.	8	••	
	-	MAINE,	
	55	Cerebrospinal meningitis:	
	38	Baileyville	1
Typhoid fever	8	Chicken pox	19
INDIANA.		Diphtheria	9
Cerebrospinal meningitis:		Influenza:	
Shelby County	1	Baileyville	20
Wabash County	1	Eastport	12
	36	Stonington	17
Influenza.			24
Measles:		Measles:	43
Hendricks County	88	North Berwick	7
	74	Portland	3
Marion County			22
Scattering			10
Poliomyelitis:		Pneumonia	8
Dekalb County	1	Scarlet fever.	7
- Cause County	. 1	Control to reference and the second	•

CURRENT STATE SUMMARIES—Continued.

Telegraphic Reports for Week Ended Mar. 27, 1920—Continued.

MAINE—continued.	ses.	NEBRASKA—continued.	Ses.
Tuberculosis	ses.	Chicken pox	ses.
Typhoid fever	2	Diphtheria:	
Whooping cough		Cortland	7
		Scattering	7
MARYLAND.1		Influenza	-
Chicken pox	51	Measles:	200
Diphtheria	50	Chappell	13
German measles	1	Gering	7
Influenza	428	Lincoln	69
Lethargic encephalitis	1	Omaha	50
Measles		Scattering	34
Meningitis	3	Mumps	5
Mumps	27	Scarlet fever:	
Ophthalmia neonatorum	1	Omaha	24
Pneumonia (all forms)		Scattering	23
Scarlet fever		Smallpox:	
Smallpox	5	Chappell	8
Trachoma	1	Franklin County	9
Tuberculosis		Lincoln	18
Typhoid fever	3	Merrick County	20
Whooping cough	39	Omaha	8
MASSACHUSETTS.		Salina County	8
		Seward County	9
Cerebrospinal meningitis	2	Scattering	64
Chicken pox		Tuberculosis	4
Conjunctivitis (suppurative)	9	Whooping cough	18
Diphtheria		NEW JERSEY.	
German measles			
Influenza		Influenza	81
Measles		Pneumonia	141
Mumps Ophthalmia neonatorum		NEW MEXICO,	
Pneumonia (lobar)		Chicken pox	10
Scarlet fever.		Diphtheria	7
Septie sore throat	292	German measles	1
Trachoma	4	Malaria	1
Tuberculosis (all forms)	-	Meas'es	8
Typhoid fever		Meningitis	1
Whooping cough		Mumps	14
	-00	Scarlet fever	9
MINNESOTA.		Smallpox	5
Cerebrospinal meningitis	1	Tuberculosis	32
Smallpox	16	Whooping cough	6
		NEW YORK.	
MISSISSIPPI.			
Diphtheria	6	(Exclusive of New York City.)	
Influenza	539	Anthrax:	-
Scarlet fever	6	Binghamton	1
Smallpox 2		Endicott	1
Typhoid fever	2	Union	1
MONTANA.		Cerebrospinal meningitis:	
		Buffalo	3
Diphtheria	11	Hastings upon Hudson	1
Influenza	49	Diphtheria	
Pneumonia.	1	Influenza	
Scarlet fever	12	Measles	
Smallpox	40	Pneumonia.	-
Typhoid fever	3	Poliomyelitis—Dunkirk	173
NEBRASKA.		Scarlet fever.	0
Carebraninal maningities		Smallpox	19
Cerebrospinal meningitis: Randolph	,	Typhoid fever	
	4 1		
Week ended Friday.		² See p. 849.	

CURRENT STATE SUMMARIES—Continued.

Telegraphic Reports for Week Ended Mar. 27, 1920-Continued.

relegraphic Reports for week	n L	nucu Mai. 27, 1520 Continued.	
NORTH CAROLINA.		WASHINGTON.	
	5		60
Cerebrespinal meningitis	-	Chicken pox	9
Chicken pox	1	German measles	1
Cholera infantum Diphtheria	_	Influenza	43
German measles.		Measles.	
Measles		Mumps	
Pneumonia (all forms)		Pneumonia	2
Scarlet fever		Scarlet fever	76
Smallpox	112	Smallpox	157
Trachoma	1	Tuberculosis	5
Whooping cough	155	Typhoid fever	5
		Whooping cough	44
OHIO, Scarlet fever:		WEST VIRGINIA.	
Akron	118	Diphtheria	15
Cincinnati		Measles:	10
Cleveland		Moundsville	7
Dover	15	Parkersburg	10
Salem	9	Wheeling	43
Smallpox -Akren	18	Scattering	17
SOUTH CAROLINA.		Scarlet fever	13
Influenza:		Smallpox:	
Abbeville	76	Bluefield	
Chester		Scattering	8
Laurens	2	Typhoid fever	2
Orangeburg	135	WISCONSIN.	
		Milwaukee:	
SOUTH DAKOTA.		Chicken pox	45
Chicken pox	3	Diphtheria	20
Diphtheria	15	Measles.	81
Influenza		Rubella	3
Measles	76 17	Scarlet fever.	27
Pneumonia		Smallpox	6
Smallpox		Tuberculosis	15
Whooping cough	4.	Whooping cough	54
		Scattering:	
VERMONT.		Cerebrospinal meningitis	1
Chicken pox	7	Chicken pox	18
Diphtheria	2	Diphtheria	35
Influenza	85	Influenza	
Measles	69	Measles	
Mumps	70	Scarlet fever	
Pneumonia	8	Smallpox	
Scarlet fever	15	Tuberculosis	8
Typhoid (ever	8	Typhoid fever	45
w nooping cough	10	w nooping cough	40
Kentucky Report for	We	ek Ended Mar. 20, 1920.	
Cerebrospinal meningitis: Ca	808.		ses.
Jefferson County	1	Knox County	
Chicken pox	35	Livingsten County	
Diphtheria	17	Logan County	
Erysipelas	1	Nicholas County	
Influenza:		Ohio County	
Allen County		Owen County	
Bell County		Taylor County	
Christian County		Todd County	
Elliott County		Webster County	63
Fleming County		ScatteringLethargic encephalitis:	101
Henry County		Jefferson County	1
manufacture security	100		-

CURRENT STATE SUMMARIES-Continued.

Kentucky Report for Week Ended Mar. 20, 1920-Continued.

Case	s. , Scarlet fever:	Cases.
Malaria	1 Campbell County	7
Measles:	Jefferson County	
Campbell County	32 Kenton County	7
Clay County	11 Scattering	23
Fleming County	Septic sore throat	
Kenton County		
Scattering	Smallpox:	
Mumps	5 Graves County	7
Pellagra	1 Muhlenburg County	12
Pneumonia:	Scattering	26
Breckenridge County	7 Tonsillitis	
Elliott County	7 Trachoma	
Hart County	7 Tuberculosis	
	Typhoid fever	
Ohio County	7 Whooping cough	
	0	

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

Tables showing, by counties, the reported cases of cerebrospinal meningitis, influenza, malaria, pellagra, poliomyelitis, smallpox, and typhoid fever are published under the names of these diseases. (See names of these and other diseases in the table of contents.)

The following monthly State reports include only those which were received during the current week. These reports appear each week as received.

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
1920.										
Alabama (February)		44	11,039	23 21	105	1		58	136	25
California (February)	20	486	46,857	21	3,865	1 2	4	446	477	29
Connecticut (February)	9	281	15, 055		1,165		1	365		27
Idaho (February)	2	12	120		37			85	268	1 2
Indiana (February)	6	214 64	18,217		1,907			913	486	27
lowa (February)	3	64	7,993	*****	******		3	201	278	
Minnesota (January)	3	329	7,275	6	643			327	362	26
Montana (February)	1	17	5, 191		67			89	107	3
Nebraska (February)	9 9 3 3	59	16,845		342		*****	317	625	8 2
North Carolina (February)	9	106			326		1	100	349	8
North Dakota (February)	3	75	6,244		52			231	26	2
Oregon (February)	3	27	5,965		44		*****	129	436	2
Rhode Island (February)	*****	177	5,799	******	106 58	1	*****	97		
South Carolina (February)	5	59	12,000	30	38	•		16	69	2
South Dakota (February) Washington (February)	*****	9	*******		201		1	234	187	7
	7	142	04 504	*****	1,107			275	955	7 8 15
Wisconsin (February)	12	148	24,731		1,798		1	522	635	15
Wyoming (February)		11	1,330		84			20	114	4

RECIPROCAL NOTIFICATION.

Minnesota-January, 1920.

Cases of communicable diseases referred during January, 1920, to other State health departments by department of health of the State of Minnesota.

Disease and locality of notifi- cation.	Referred to health authority of-	Why referred.
Diphtheria: Winona General Hospital, Winona, Winona County.	Blair, Trempealeau County, Wis	Case diagnosed as croup in Wis consin, died one hour after ar rival in Minnesota, Culture
Blooming Prairie, Steele County.	Chicago, Cook County, Ill	positive for diphtheria. Taken sick in Minnesota one day after arrival from Illinois.
St. Paul Bureau of Health, Ramsey County.	River Falls, Pierce County, Wis	Patient left Minnesota for Wiscon- sin after throat culture showed diphtheria bacilli.
Rochester, Olmsted County.	Deer Park, St. Croix County, Wis	Virulent diphtheria case left Min- nesota for Wisconsin.
Encephalitis(?); meningitis(?): Fulda, Murray County	West Bend, Palo Alto County, Iowa.	Patient left Minnesota for Iowa. Taken sick and died before reaching destination. Had been exposed to cases of meningitis and encephalitis.
Tuberculosis: Pokegama Sanatorium, Pine County.	Waukon, Allamakee County, Iowa (2 cases): Wilmot, Roberts Coun- ty, S. Dak.	Two open and one quiescent case left sanatorium for homes.
Typhoid fever: Excelsior, Hennepin County.	United States Public Health Service.	Employed three weeks previous to first symptoms on dredge sta-
City and County Hospital, St. Paul, Ramsey Coun- ty.	Max, McLean County, N. Dak	tioned on Mississippi River. Employed at Max, N. Dak., three weeks previous to first symp- toms.

ANTHRAX.

Charlotte, N. C., Brainerd, Minn., New York, N. Y., Philadelphia, Pa., and San Francisco, Calif.

During the week ended March 13, 1920, one fatal case of anthrax was reported at Charlotte, N. C., one case was reported at New York, N. Y., and two cases were reported at Philadelphia, Pa. One case was reported at Brainerd, Minn., during January, and one at San Francisco, Calif., during February, 1920.

172491°-20-3

CEREBROSPINAL MENINGITIS.

State Reports for January and February, 1920.

Place.	New cases reported.	Place.	New case reported.
California (February):		Nebraska (February):	
Alameda County-		Colfax County	1 :
Oakland	1	Dawson County	
Kern County—		Douglas County	
Bakersfield	1	Saunders County	
Lassen County	1	Webster County	
Los Angeles County—	1	Total	
Long Beach Los Angeles.	2	Total	
Placer County—		North Carolina (February):	
Colfax	1	Durham County	
Sacramento County—		Harnett County	
Sacramento	1	Jackson County	
San Francisco	11	Lee County	
Tulare County—		New Hanover County	
Lindsay	1	Pitt County	
(Potol	20	Rockingham County	
Total	20	Rutherford County Wake County	
Connecticut (February):		make County	
Fairfield County—		Total	
Bridgeport	1		
Greenwich	1	North Dakota (February):	
Berlin	1	Cavalier County	
Hartford	î	Walsh County—	
New Haven County—		Minot	
New Haven	2	m-4-1	
Waterbury	2	Total	
Windham County—		Oregon (February):	
Killingly	1	Clackamas County	
		Portland.	
Total	9		
daho (February):		Total	
Bonner County— Sandpoint			
Sandpoint	1	South Carolina (February):	
Kootenai County—		Cherokee County	
Coeur d'Alene	1	Greenville County	
Total	2	Laurens County	
		Spartanburg County	
Indiana (February):	0	Sparting County	
Elkhart County	1	Total	
St. Joseph County Tippecanoe County	3		
appealing county	0	Washington (February):	
Total	6	King County—	
		Seattle	
lowa (February): Jasper County	2	Pierce County—	
Jasper County	1	Spokane County—	
Pottawattaune County		Spokane County—	1
Total	3	Yakima County—	
		Zillah	1
Minnesota (January): Blue Earth County—			
Mankato	1	Total	
Brown County-			
North Star Township	1	Wisconsin (February):	
Murray County—	-	Douglas County	
Iona Township	1	Milwaukee County Outagamie County	1
		Polk County	
Total	3	Racine County.	1
Montana (February):		and the County	
Blaine County—		Total	12
Zurich (R. D.)	1		-

CEREBROSPINAL MENINGITIS—Continued.

City Reports for Week Ended Mar. 13, 1920.

Place.	Cases.	Deaths.	Place,	Cases.	Deaths,
Akron, Ohio	1 2	1 1 1 1	Milwaukee, Wis	1 2	
Bridgeport, Conn Buffalo, N. Y Cape Girardeau, Mo	1	1	New London, Conn New Orleans, La New York, N. Y	1 6	1
Charlotte, N. C	1	i	Oakland, Calif. Philadelphia, Pa Plymouth, Mass. Pueblo, Colo.		
Dallas, Tex	3	1 2 1	Raleigh, N. C	1	
Eau Claire, Wis	i	i i	Salem, Oreg Salt Lake City, Utah San Francisco, Calif. South Bend, Ind		
Lynn, Mass Marion, Ohio Memphis, Tenn	1	i	Trenton, N. J	1	i

DIPHTHERIA.

See Telegraphic weekly reports from States, p. 836; Monthly summaries by States, p. 840; and Weekly reports from cities, p. 861.

INFLUENZA.

California and Minnesota Reports-January and February, 1920.

Place.	New cases reported.	Place.	New case reported.
California (February)	46,857	Minnesota (January)—Continued.	
		Meeker County	386
Minnesota (January):		Morrison County	1:
Aitkin County	1	Mower County	6
Anoka County		Murray County	3
Becker County		Nicollet County	
Beltrami County		Nobles County	6
Benton County		Norman County	0
Big Stone County		Olmsted County	36
Blue Earth County		OttertailCounty	12
Brown County		Pennington County	12
Corlton County	7	Pine County	2
Carlton County	9	Pinestene County	20
Carver County	21	Pipestone County	50
Cass County		Polk County	12
Chippewa County	110	Pope County	
Chisago County	10	Ramsey County	1
Clay County	134	St. Paul	98
Cottonwood County	57	Red Lake County	1
Crow Wing County	8	Redwood County	1
Dakota County	117	Renville County	2
Dodge County	85	Rice County	33
Douglas County	17	Rock County	65
Faribault County	46	Roseau County	1
Fillmore County	30	St. Louis County	137
Freeborn County	326	Duluth	179
Goodhue County	124	Scott County	43
Grant County	38	Sherburne County	22
Hennepin County	79	Sibley County	
Minneapolis	1,573	Stearns County	131
Houston County	62	Steele County	103
Igenti County	7	Stevens County	10
Isanti County	26	Swift County	11
Itasca County		Swift County	18
Jackson County	27	Traverse County	3
Kandiyohi County	16	Wabasha County	24
Kittson County	18	Waseca County	40
Koochiching County	25	Washington County	42
Lac qui Parle County	20	Watonwan County	137
Le Sueur County	55	Wilkin County	4
Lincoln County	35	Winona County	57
Lyon County	133	Wright County	139
McLeod County	33	Yellow Medicine County	34
Mannomen County	2		
Marshall County	26	Total	7,275
Martin County	100		.,

INFLUENZA—Continued.

City Reports for Week Ended Mar. 13, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Aberdeen, Wash	42		Harrison, N. J.	1	
Aberdeen, Wash Akron, Ohlo. Ann Arbor, Mich Anniston, Ala. Appleton, Wis. Arlington, Wass Arlington, Mass Asbury Park, N. J. Ashland, Ky. Atlanta, Ga. Atlantic City, N. J. Atlaboro, Mass Auburn, Mass Auburn, Me. Austin, Tex. Baltimore, Md.			Harrison, N. J		
Ann Arbor, Mich	5		Hattiesburg, Miss	13	
Appleton Wis			Hibbing Minn	20 11	1
Arlington, Mass	2		Hibbing, Minn. Hoboken, N. J. Hoquiam, Wash. Hot Springs, Ark.	1	*********
Asbury Park, N. J	1		Hoguiam, Wash	63	
Ashland, Ky	9		Hot Springs, Ark	35	
Atlanta, Ga	143		Houston, Tex	9	
Atlantic City, N. J	4		Huntington, W. Va		
Attleboro, Mass		. 1	Independence, Mo	1	
Auburn, Me	3	2	Indianapolis, Ind	9	1
Austin, Tex	********		Ironton, Ohio	7	********
Paten Pouge La	178	11 2	Ishnaming Mich	6	
Rattle Creek Mich	î		Ithaca N V	11 23	
Beatrice, Nebr		1	Jacksonville, Ill.		***********
Beaumont, Tex	2	2	Jamestown, N. Y.	5	
Berlin, N. H		. 1	Jersey City, N. J	1	
Binghamton, N. Y	12	3	Kansas City, Kans	9	
Birmingham, Ala	43		Kansas City, Mo	11	
Austin, Tex Baltimore, Md Balon Rouge, La Battle Creek, Mich Beatrice, Nebr. Beaumont, Tex Berlin, N. H. Binghamton, N. Y Birmingham, Ala Bloomield, N. J.	4	*********	Kearny, N. J.	3	
Bloomington, Ind Bluefield, W. Va loston, Mass Brazil, Ind Bridgeport, Conu		. 1	Indianapolis, Ind. Ironton, Ohio. Ironwood, Mich. Ishpeming, Mich. Ishpeming, Mich. Ithaca, N. Y. Jacksonville, Ill. Jamestown, N. Y. Jersey City, N. J. Kansas City, Kans. Kansas City, Koo. Kearny, N. J. Keene, N. H. Kenosha, Wis Lackawanna, N. Y. Lancaster. Ohio. La Salle, Ill. Lawrence, Mass.	5	********
loston Mass	s0	11	Leokawanna N. V.	.1	********
Brazil Ind	8	11	Lancaster Ohio	11	
Bridgeport, Conn	0	R	La Salle III	1	
Bristol, Conn	10		Lawrence, Mass		
Brockton, Mass	1		Leavenworth, Kans. Leominster, Mass. Lexington, Ky. Lincoln, Nebr.	1	
Brunswick, Ga	18		Leominster, Mass	9	
Buffalo, N. Y	42	6	Lexington, Ky	5	2
Bristol, Conn. Brockton, Mass. Brunswick, Ga. Suffalo, N. Y. Surlington, Iowa. Burlington, Vt. Sutte, Mont.	1		Lincoln, Nebr		2
surlington, Vt	8	1	Little Rock, Ark Logansport, Ind. Long Beach, Calif.	51	
Sutte, Mont	2	3	Logansport, Ind		2
adillac, Mich	6	********	Long Beach, Calif	28	*********
harlacton S C	49	3	Los Angeles Colif	979	********
harlotte N. C.	49	. 1	Louisville Kv	19	
harleston, S. C. harlotte, N. C. hattanooga, Tenu	20	1 4	Lorain, Ohio. Los Angeles, Calif. Louisville, Ky. Lowell, Mass. Lynchburg, Va. Lynch Mass	14	2
helsea, Mass	1		Lynchburg, Va	i	
hicago, Ill	195	29	Lynn, Mass. Manchester, N. H. Mankato, Minn.	3	3
hillicothe, Ohio	7		Manchester, N. H		6
hattanoga, Tenn helsea, Mass hicago, Ill. hillicothe, Ohio incinnati, Ohio leveland, Ohio oloteyille, Kans ohoes, N. Y.	46	24	Mankato, Minn	3	********
leveland, Ohio	38	10	Marion, Ind	7	2
oneyville, Kans	17	1	Mattoon, Ill. Melrose, Mass	1	*********
olumbia S C	10	*********	Memphis Tenn	30	
olumbus Ga	3	1	Memphis, Tenn	38	,
olumbus, Gaolumbus, Ohio		8	Milwaukee Wis	9	*********
ornus Christi, Tex	70		Minneapolis, Minn	23	7
ovington, Ky	10		Mobile, Afa	15	2
ovington, Kyranston, R. Iumberland, Md	1	1	Mobile, Ala	1	
umberland, Md	24	1	Montgomery, Ala	5	9
Pallas, Tex	81	3	Morgantown, W. Va	11	********
Panville Va	5	2	Nochus N. H.	2	
umberland, Md pallas, Tex panville, III panville, Va pecatur, III. petroit, Mich pover, N. H puluth, Minn purham, N. C cast Orange, N. J cast St. Louis, III lizabeth, N. J I Paso, Tex ureka, Calif. verett, Mass airmont, W. Va all River, Mass indlay, Ohio ond du Lac, Wis ostoria, Ohio alesburg, III.	47	4	Montclair, N. J. Montgomery, Ala. Mongantown, W. Va. Mount Vernon, N. Y. Nashua. N. H. Nashville, Tenn Newark, N. J. New Belford, Mass. New Britain, Conn Newburyport, Mass. New London, Conn New London, Conn New London, Conn New Ordeans, La. Newton, Mass. New York, N. Y. Niagara Falls, N. Y. Norfolk, Va. North Little Rock, Ark. North Tonawanda, N. Y. Norwood, Ohlo. Oakland, Callf. Oak Park, Ill. Oklabora City, Okla	6 3	10
etroit. Mich.	10	9	Newark N I	69	18
over, N. H.	4		New Bedford, Mass	10	
uluth, Minn	2	1	New Britain, Conn	6	3
urham, N. C		i	Newburyport, Mass	9	
ast Orange, N. J.	. 1		New Haven, Conn	33	7
ast St. Louis, Ill	********	8	New London, Conn	5	********
lizabeth, N. J	2	2 5	New Orleans, La	125	15
I Paso, Tex		5	Newton, Mass	10	4
verett Mass	17	1	Ningara Palle N. V	381	74
airmont W Ve	1 2		Norfolk Va	21	2
all River, Mass	11	4	North Little Rock Ark	46	*********
indlay, Ohio	68	*	North Tonawanda, N. V	3	
ond du Lac, Wis	1		Norwalk, Conn.		1
ostoria, Ohio	2		Norwood, Ohio		î
alesburg, Ill		1	Oakland, Calif	40	3
ardner, Mass		1	Oak Park, Ill	2	
ary, Ind.		1	Oklahoma City, Okla	1	2
rang Rapids, Mich	22		Omaha, Nebr	1	2
ostoria, Onio. alesburg, Ill. ardner, Mass. ary, Ind rand Rapids, Mich. ranite City, Ill. reat Falls, Mont reenwich, Conn. ackensack, N. J.	1	********	Oak land, Callf. Oak Park, Ill. Oklahoma City, Okla. Omaha, Nebr. Orange, N. J. Parsons, Kans. Pasadena, Calif. Passaic, N. J.	9 .	*********
reenwich Conn	21	********	Pasadana Calif	14	***************************************
AUTOMATE STORE TO SERVICE A CONTRACTOR OF STREET	2		- modeleting - milionessessesses	1.9	

INFLUENZA-Continued.

City Reports for Week Ended Mar. 13, 1920-Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Paterson, N. J.	19		Santa Barbara, Calif	2	
Petersburg, Va	28		Saratoga Springs, N. Y	20	
Philadelphia, Pa	24	30	Savannah, Ga	100	5
Piqua, Ohio		li	Schnectady, N. Y		
Plainfield, N. J			Seattle, Wash		
Pontiac, Mich			Sioux Falls, S. Dak	1	1
Port Chester, N. Y		i	Somerville, Mass	i	
Port Huron, Mich.	1		Southbridge, Mass	. 9	
Portland, Me		1	Springfield, Mass	ē	
Portland, Oreg	49	10	Stockton, Calif.		4
Portsmouth, Ohio		10	Syracuse, N. Y		
Portsmouth, Va		2	Terre Haute, Ind		
Providence, R. I		5	Tiffin, Ohio		
Quincy, Mass		1	Toledo, Ohio	1	
Racine, Wis			Traverse City, Mich	4	
Raleigh, N. C	5	********	Trenton, N. J.	35	1
Redlands, Calif	5		Troy, N. Y	2	1
Reno, Nev			Waco, Tex		1
Richmond, Va		4	Washington, D. C	6	- 7
Riverside, Calif			Watertown, Mass	1	
Roanoke, Va	20	1	Watertown, N. Y	32	
Rochester, N. Y	. 4	7	Wausau, Wis	9	1
Rockford, Ill		1	Westfield, Mass	5	
Rock Island, Ill	2		West Hoboken, N. J		
Rocky Mount, N. C		2	West New York, N. J		1
Rome, Ga	113		West Orange, N. J.	1	
Rome, N. Y			Wheeling, W. Va		1
Sacramento, Calif	29		Wilmington, Del	*******	î
Salem, Orez			Winston-Salem, N. C	3	î
Salt Lake City, Utah			Winthron Moss	2	
San Bernardino, Calif	a		Winthrop, Mass	28	5
Sanford, Me		1	Yonkers, N. Y.	40	
San Francisco, Calif	144	19	Zanesville, Ohio.		1
san Francisco, Cam	144	19	Zanesvine, Omo	*******	3

LEPROSY.

Sacramento, Calif.-Week Ended Mar. 13, 1920.

During the week ended March 13, 1920, 1 case of leprosy was reported at Sacramento, Calif.

LETHARGIC ENCEPHALITIS.

California, Connecticut, Nebraska, New York, and Oregon.

During the month of February, 1920, there were reported 12 cases of lethargic encephalitis in California, 4 in Connecticut, 2 in Nebraska, and 4 in Oregon. During the week ended March 13, 1920, 1 case was reported at Meriden, Conn., and 1 death was reported at Yonkers, N. Y.

MALARIA.

State Reports for January and February, 1920.

Place.	New cases reported.	Place.	New cases reported.
Alabama (February): Calhoun County Jefferson County Lamar County Mobile County Talladega County Walker County	1 9 5	California (February)—Continued, Santa Clara County— San Jose. Shasta County— Redding. Total.	21
TotalCalifornia (February):	23	Minnesota (January): Goodhue County— Red Wing	0
Fresno County— Fresno. Kings County— Lemoore Sacramento County— Sacramento. San Francisco County— San Francisco United States Naval Station San Joaquim County— Stockton.	1 1 1 1 13	South Carolina (February): Clarendon County. Dorchester County. Marion County. York County. Total.	16

City Reports for Week Ended Mar. 13, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alexandria, La. Brunswick, Ga. Dallas, Tex. Memphis, Tenn	25 1 3 1		North Little Rock, Ark Rome, Ga Savannah, Ga	1 1 2	

MEASLES.

See Telegraphic weekly reports from States, p. 836; Monthly summaries by States, p. 840; and Weekly reports from cities, p. 861.

PARAGONIMIASIS (JAPANESE LUNG-FLUKE DISEASE).

Washington Report for February, 1920.

During February, 1920, one case of paragonimiasis was reported in the State of Washington.

PELLAGRA.

State Reports for February, 1920.

Place.	New cases reported.	Place.	New cases reported.
Alabama: Calhoun County	1	Rhode Island: Cranston	,
California: Los Angeles County— Burbank.		South Carolina: Marion County Pickens County	
Riverside County— Elsinore	1	Union County York County	i
Total	2	Total	

PELLAGRA—Continued.

City Reports for Week Ended Mar. 13, 1920.

Place. Cases.		Deaths.	Place.	Cases.	Deaths.
Birmingham, Ala Charleston, S. C Columbus, Ga		4 2 1	Little Rock, Ark New Orleans, La	1 1	·····i

PNEUMONIA (ALL FORMS).

City Reports for Week Ended Mar. 13, 1920.

Place.	Place. Cases. Deaths. Place.		Cases,	Deaths.	
Aberdeen, Wash	1		Cumberland, Md	10	2
Alexan Ohio			Dallas, Tex Danville, Ill	6	5
Alameda, Calif	2	2	Danville, Ill		.1 5
Alameda, Calif. Albany, N. Y. Alexandria, La. Alton, Ill.	9		Dayton Ohio		
Alexandria, La	2	2	Dedham, Mass		. 2
Alton, Ill	2		Denver, Colo		. 10
Anaconda, Mont Anderson, Ind		2	Detroit, Mich	37	75
Anderson, Ind		1	Dover, N. H.		1
Ann Arbor, Mich Ansonia, Conn	** ********		Duluth, Minn. Durham, N. C. East Chicago, Ind. East Orange, N. J.	2	
Ansonia, Conn		1	Durham, N. C		2
Arington, Mass	1	i	East Chicago, Ind		5
Asbury Park, N. J	5	17	East Orange, N. J	2	1
Arlington, Mass Asbury Park, N. J Atlanta, Ga Atlantic City, N. J	5		Eight, Ill.		1
Attleboro, Mass		1	Elizabeth, N. J	2	
Attleboro, Mass		1	Elkhart, Ind		3
Baltimore, Md	92	54	Ellina, N. Y	1	10
Barberton, Ohio		2	Elkhart, Ind. Elmira, N. Y. El Paso, Tex Englewood, N. J. Euroka, Calif.		10
Barre, Vt. Baton Rouge, La Battle Creek, Mich Beatrice, Nebr.	. 1		Englewood, N. J	1	1
Baton Rouge, La	1	1	Euroka, Cam		1
Battle Creek, Mich	1	i	Everett, Mass	1	1
Beaument Toy	4	1	Fall River Mass	1 0	10
Beaumont, Tex Berlin, N. H		2	Findley Ohio	2	
Derilli, N. H	. 1		Findlay, Ohio. Flint, Mich. Fort Wayne, Ind. Fort Worth, Tex.		2 2 3
Beverly, Mass Biddeford, Me		3	Fort Wayne Ind		9
Billings Mont		2	Fort Worth Tex	4	4
Billings, Mont. Binghamton, N. Y	17		Framingham Mass	i	2
Birmingham, Ala		24	Framingham, Mass Freeport, Ill		ī
Bloomfield, N. J	. 1		Galesburg III		i
Boston, Mass	29	37	Galveston, Tex.		î
Bridgeport, Conn		6	Freeport, III. Galesburg, III. Galveston, Tex. Gardner, Mass. Gary, Ind. Glens Falls, N. Y. Gloucester, N. J. Grand Rapids, Mich. Granite City, III. Great Falls, Mont. Greenfield, Mass. Hackenessek, N. J.	1	2
Bristol, Conn		i	Gary, Ind		9
Brockton, Mass		2	Glens Falls, N. Y	2	2
Brunswick, Ga	1	2	Gloucester, N. J	2	
Brunswick, Ga Buffalo, N. Y	. 54	32	Grand Rapids, Mich	11	5
Burlington, Iowa Burlington, Vt		3	Granite City, Ill		2
Burlington, Vt	. 2	3	Great Falls, Mont	8	11
Butte, Mont	. 1	6	Greenfield, Mass	1	4
Cadillac, Mich	. 6	4			
Cairo, Ill		2	Hammond, Ind		5
Cambridge, Mass	. 3	4	Hartford, Conn	2	6
Canton, Ill	. 5		Hattiesburg, Miss		1
Canton, Ohio		3	Havernill, Mass	2	
Cape Girardeau, Mo	1	6	Hoboken, N. J.	5	5
Chanute, Kans		1	Hoboken, N. J. Holyoke, Mass. Hoquiam, Wash	2	8
Charlotte, N. C		4	Hoddiam, Wash	3	2
Chattanooga, Tenn Chelsea, Mass	. 3	5	Hot Springs, Ark	14	10
helsea, Mass	. 2	3	Houston, Tex		1
inicago Heights, Ill		1	Huntington, Ind		9
hicago, Ill	284	79	Huntington, W. Va. Independence, Mo. Indianapolis, Ind.	. 2	2
Chicopee, Mass		- 3	Indianapolis Ind	-	11
Cincinnati, Ohio		46	Ironton, Ohio	2	**
Cleveland, Ohio	01	1	Ironwood, Mich		1
Johnson N V	. 3	i	Ishpeming, Mich	2	
Columbia S C	3		Ishpeming, Mich	ī	
Coffeyville, Kans Cohoes, N. Y Columbia, S. C Columbus, Ga	6	7	Jacksonville, III. Jamestown, N. Y Jefferson City, Mo Jersey City, N. J. Kalamazoo, Mich		4
Columbus Ohio	. 0	6	Jamestown, N. Y	7	i
Columbus, Ohio		4	Jefferson City, Mo.		4
Corpus Christi, Tex	9		Jersey City, N. J.	7	
ortland, N. Y	1		Kalamazoo, Mich	5	6
Cortland, N. Y		1			
Covington, Ky	. 3	10	Kansas City, Mo Keene, N. H	21	15
		3	17 N. 11	4 .	1

PNEUMONIA (ALL FORMS)—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	es. De	
Kahama Ind		2	Plymouth, Mass			
Kokomo, Ind Lackawanna N. Y	4	-	Pontine Mich	6	1	
La Fayette, Ind			Port Choster N V	2	1	
La Favette, Ind		2	Pontiac, Mich. Port Chester, N. Y Port Huron, Mich	î		
La Salle, Ill		1 2				
awrence, Mass	9	8	Portland, Me. Portland, Oreg. Portsmouth, Ohio. Portsmouth, Va. Poughkeepsie, N. Y Providence, R. I. Pueblo, Colo.	2		
exington, Ky	6	3	Portland, Oreg.	2	1	
ima Ohio	. 2		Portsmouth, Onio	2		
Lincoln, Nebr		3	Portsmouth, Va	1	1	
Little Rock, ArkLockport, N. Y	7		Poughkeepsie, N. 1	1	1	
ockport, N. Y	4	2 2 3	Providence, R. I			
ogansport, Ind		2	Pueblo, Colo	********	1	
ong Beach, Calif	4		Quincy, III	1	1	
os Angeles, Calif	. 51	20	Quincy, Mass	3		
ouisville, Ky	7	17	Rahway, N. J.			
owell Mass	. 6	14	Quincy, III	1		
vnenburg, Va		1				
Vnn. Mass	4	4	Roanoke, Va. Rochester, N. Y. Rockford, Ill. Rock Island, Ill. Rocky Mount, N. C. Rome, Ga. Rome, N. Y.	4		
facon, Ga	4		Rochester, N. Y	21		
facon, Ga fanchester, N. H	4	4	Rockford, Ill			
fankato, Minn		i	Rock Island, Ill	4		
			Rocky Mount, N. C.			
dedford, Massdemphis, Tenn		19	Rome, Ga	6		
Jothuon Mass		1	Rome, N. Y	1		
dethuen, Mass		1	Sacramento, Calif	7		
fiddletewn Ohio	3 1	*********	St Joseph Mo		1	
diddietown, Onio	1	1	Salam Mace	5		
fiddletown, Ohio		14	Salem, Mass. Salem, Oreg. Salt Lake City, Utah.	9		
linneapons, Minn		11	Calt I also City I tak	********		
ishawaka, Ind		1	Sait Lake City, Ctan			
dissoula, Mont		2 7	San Bernardino, Calif	1		
fobile, Ala	1	7	Sandusky, Ohio	**********		
fontchair, N. J	1 3	1	Sanford, Me	2	1	
forgantown, W. Va	1	1	San Francisco, Calif	15		
fount Vernon, N. Y	6	. 4	Saratoga Springs, N. Y	8		
funcie Ind		2	Savannah, Ga			
discoula, Mont dobile, Ala fontckair, N. J. forgantown, W. Va. dount Vernon, N. Y. funcie, Ind sashua, N. H. lashville, Tenn lewark, N. J. lew Bedford, Mass. lew Britain, Conn. lewburyport, Mass.		ī	San Bernardino, Calif. Sandusky, Ohio Sanford, Me. San Francisco, Calif. Saratoga Springs, N. Y. Savannah, Ga. Schenectady, N. Y. Sioux Falls, S. Dak. Somerville, Mass. South Bend, Ind	3		
Sachwille Tenn	2	5	Sioux Falls, S. Dak	1		
ashvine renn	92	23	Somerville Mass	3		
Your Dodford Mass	92	13	South Bend, Ind Springfield, Ill Springfield, Mass	1		
Cew Bediord, Mass	1	3	Springfield III	-	*****	
ew Britain, Conn		0	Springfield Mase	3		
		*********	Stockton Colif			
eweastle,Ind	1	1	Stockton, Calif. Syracuse, N. Y. Taunton, Mass.	9		
lew Haven, Conn		10	Tourston Moss	3		
ew London, Conn		1	Taunion, Mass	0		
ew Orleans, La	3	44	Terre Haute, Ind			
ew York, N. Y. liagara Falls, N. Y. orfolk, Va.	451	243	Tiffin, Ohio	2		
iagara Falls, N. Y	15	4	Toledo, Ohio			
orfolk, Va	8		Topeka, Kans			
orth Adams Mass		2	Topeka, Kans Traverse City, Mich Trenton, N. Troy, N. Y Vallejo, Calif.	2		
orth Little Rock, Ark orth Tonawanda, N. Y orwalk, Conn	2		Trenton, N. J.	9		
orth Tonawanda, N. Y	2	3	Troy, N. Y	11		
orwalk Conn	-	3	Vallejo, Calif			
orwich Conn	2	2	Waco, Tex			
orwood, Ohio	1 1	-	Waltham, Mass	4		
			Washington, D. C			
akland, Calif	2	16	Waterbury, Conn	1		
ak Park, Ill	1	5	Watertown, Mass			
klahoma City, Okla		5	Watertown, N. Y.	2		
klahoma City, Oklalean, N. Ymaha, Nebrrange, N. J		4	Wansatt Wis	-1		
maha, Nebr		11	West Hoboken N I	9		
range, N. J	7	2	West New York N I	-		
		1	West Orange N I	9		
accaie N I	. 2	1	Wheeling W Vo	2		
toron N I	2		White Dising N. Va	3		
terson, N.J	0		white Plains, N. Y	1		
awtucket, R. I		3	Wichita, Kans	2		
assaic, N. J. aterson, N. J. awtucket, R. I.	**********	1	Wilmington, Del			
eoria, III		2	Winchester, Mass	1		
erth Amboy, N. J	2	1	Winston-Salem, N. C	7		
etersburg, Va		4	Woburn, Mass			
eoria, IIIerth Amboy, N. Jetersburg, Vahiladelphia, Pa	171	123	Waco, Tex. Waltham, Mass. Washington, D. C. Waterbury, Conn. Watertown, Mass. Watertown, Mass. Watertown, N. Y. Wausau, Wis. West Hoboken, N. J. West Orange, N. J. Wheeling, W. Va. White Plains, N. Y. Wichita, Kans. Wilmington, Del. Winchester, Mass. Winston-Salem, N. C. Woburn, Mass. Worcester, Mass. Worcester, Mass. Yonkers, N. Y. Zanesville, Ohio.	8		
iqua, Óhiolainfield, N. J	1	1	Yonkers, N. Y	14		
		3				

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for February, 1920.

Place.	New cases reported.	Place.	New cases reported.
California: Los Angeles County. Los Angeles. Orange County. Stanislaus County. Total	1 1 1 1 1 1 1 1	North Carolina: Cumberland South Dakota: Butte County Wisconsin:	1
Connecticut: Windham County— Woodstock Iowa: Buchanan County Johnson County Wapello County Total	1 1 1 1 1 3	Green County	1

Chicago, Ill.-Week Ended Mar. 13, 1920.

During the week ended March 13, 1920, one case of poliomyelitis was reported in Chicago, Ill.

RABIES IN ANIMALS.

City Reports for Week Ended Mar. 13, 1920.

During the week ended March 13, 1920, one case of rabies in animals was reported at Akron, Ohio; one at Cranston, R. I.; one at Fall River, Mass.; and five were reported at Kansas City, Mo.

RABIES IN MAN.

Nebraska and South Carolina-February, 1920.

During February, 1920, one case of rabies was reported in Nebraska and one in South Carolina.

SCARLET FEVER.

See Telegraphic weekly reports from States, p. 836; Monthly summaries by States, p. 840; and Weekly reports from cities, p. 861.

SMALLPOX.

Jones County, Miss.

An outbreak of virulent smallpox was reported on March 29, 1920, in Jones County, Miss. At Laurel 53 cases, with 15 deaths were notified.

Belleville, N. J.

A report dated March 29, 1920, stated that smallpox was unusually prevalent in Belleville, N. J. Thirty-two cases were reported during the week ended March 27. Cases were reported in Newark, Bloomfield, and East Orange.

SMALLPOX-Continued.

State Reports for January and February, 1920-Vaccination Histories.

	New cases reported.	Deaths.	Vaccination history of cases.				
Place.			Vaccinated within 7 years, preceding attack.	Last vaccinated more than 7 years preceding attack.		History not ob- tained or uncertain.	
California (February):							
Alameda County-							
Alameda	4 6	********	3	**********	1 5		
Oakland	1		1		i	**********	
Butte County	14				14		
Chico	6			1	5		
Contra Costa County—	**				1 40		
Martinez Pittsburgh	10	*********	**********		10		
Richmond	i				1	**********	
El Dorado County	i				i	**********	
Fresno County	10		2	3	5		
Coalinga	1				1	*********	
Glenn County	1			************	1		
Humboldt County	5	********		***********	1	1	
Blue Lake	î	*********		1		***********	
Imperial County	14		2		11		
Calexico	1		11	(1)	(1)		
Holtsville	34		2	3	29		
Imperial	4			1	3		
Kern County	2		1	**********		1	
Hanford	7 2		1	**********	6	**********	
Lemoore	2	********		**********	2	***************************************	
Los Angeles County	38		2	1	35		
Los Angeles County	1			i			
Los Angeles	28		2	1	25		
Los Angeles	42		2	1	30	9	
Monrovia	2 3 9				2		
Pomona Venice.	3		*********	2	3		
Whittier	2		**********	2	2		
Madera County	1		***********		ī	***********	
Madera	2			1	i		
Marin County					1		
Monterey	1		**********		1		
Napa County	1		*********	**********	1	**********	
Orange County	î	********			i		
Santa Ana	1				î		
Roseville	2				1	1	
Riverside County	15			2	13		
Beaumont	3	********			***********	1	
Corona	13	********	*********	***********	13	**********	
Riverside	3		***********	1	1	1	
Sacramento County-				- 1	-		
Sacramento	2			1		1	
San Benito County-							
San Bernardino County—	. 1		**********		1		
Colton	9		1		1		
Ontario	ī			1	•	•••••••••••••••••••••••••••••••••••••••	
San Bernardino San Diego County— San Diego	1				1		
San Diego	.7		1	1	4	1	
San Francisco	44		1	6	37		
San Joaquin County Manteca	1				1		
	il				1		
San Mateo County	î			1			
Santa Barbara County	2					2	
Santa Barbara	65		2 43		22		
Santa Clara County—							
GilroyLos Gatos	2	*********	1		1		
San Jose	6	********			6	• • • • • • • • • • • • • • • • • • • •	

¹ Thirteen times.

A few days after onset.

SMALLPOX-Continued.

State Reports for January and February, 1920-Vaccination Histories-Continued.

			Vaccination history of cases.				
Place.	New cases reported.	Deaths.	Vaccinated within 7 years, preceding attack.	more than	Never success- fully vaccinated	History not ob- tained or uncertain.	
California (February)—Contd.							
Siskiyou County	2				. 2		
Montague	1	**********			1		
Solano County Rio Vista	3	********	2		. 3		
Suisun	1	********	2	1	***********		
Vallejo	î				1		
Stanislaus County	2			. 1	i		
Turlock	1				î		
Tehama County— Red Bluff Tulare County—	1				1		
Lindsay	4				4		
Porterville	1				i	***********	
Ventura County	2				2		
Santa Paula	3				3		
Yolo County Yuba County—	2				2		
Marysville	4				1		
Total	477		70	31	352	2	
finnesota (January):							
Becker County—				1			
Detroit	10				10		
Lake Park	1				1	**********	
Audubon Township Detroit Township	1				i	***********	
Detroit Township	2				2		
Benton County—							
Foley Sauk Rapids Big Stone County—	1		***********		1		
Beardsley	5				4	1	
Big Stone	1				1		
Graceville Township Blue Earth County—	1				1		
Mankato	3				3		
Lincoln Township Clay County—	i	1	• • • • • • • • • • • • •			***********	
Glyndon Highland Grove Town-	1				1		
ship	1						
Riverton Township	î				i	**********	
Crow Wing County—	- 1		**********		- 1	**********	
Crosby	19				19		
Deerwood Township	2				2		
Dakota County—					1		
Inver Grove South St. Paul	5	********	********			1	
Douglas County—	9			1	1	3	
Alexandria	47	1		1	46		
Hudson Township	1		***********		1	**********	
Hudson Township La Grand Township Lake Mary Township Leaf Valley Township	1				î l		
Lake Mary Township	1				1	**********	
Leaf Valley Township	3				3		
Urness Township Faribault County— Guckeen	1		**********		1	********	
Winnebago	2		**********		1	***************************************	
Verona Township	ĩ				î		
Spring Valley Summer Township	1				1		
Sumner Township Freeborn County— Glenville	1			1		***********	
Both Township	1 .				1 .		
Bath Township Goodhue County—	1 .				1 .		
	1				- 1		
Cantion Falls	2			1	2		
Cannon Falls	2				2	*********	

SMALLPOX—Continued.

State Reports for January and February, 1920-Vaccination Histories-Continued.

Minnesota—Continued. Grant County— Elbow Lake. Noreross. Noreross. Noreross. North Ottowa Township Hennepin County— Brooklyn Township. Hubbard County— Park Rapids. Hubbard Township. Isanti County— Braham. Athens Township. Kanabec County— Mora. Ogilvie. Pomroy Township. Kandiyohi County— Colax Township. Gennessee Township. Harrison Township. Kitson County— Ericsburg. Rat Root Township. Lac qui Parle County— Ericsburg. Rat Root Township. Mawell Township. Mawell Township. Makell Township. Makell Township. Male Township. Martin County— Lisland Lake Township. Marshall County— Island Lake Township. Marshall County— Argyle. Warren. Bloomer Township. Marshall County— Fairmont. Truman. Truman. Trenhassen Township. Meeker County— Fairmont Truman. Trenhassen Township. Mile Lacs County— Isle Harbor Township. Morrison County— Isle Harbor Township. Morrison County— Two Rivers Township.	61 11 3 2 2 2 1 2 2 1 2 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 2 1	Deaths.	Vaccinated within 7 years, preceding attack.	Last vaccinated more than 7 years preceding attack.	Never successfully vaccinated. 6 1 1 1 3 2 2 2 8 5 5 1 1 2 1 7 7 2 1 1 2 3 3 1 2 2 1 1 7 7 2 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 1	History not obtained or uncertain.
Elbow Lake Norcross North Ottowa Township Hennepin County— Brooklyn Township Hubbard County— Park Rapids Hubbard Township Santi County— Braham Athens Township Kanabec County— Mora Ogilvie Ogilvie Pomroy Township Kandiyohi County— Collax Township Gennessee Township. Gennessee Township. Harrison Township. Kittson County— Eriesburg Rat Root Township Lac qui Parle Township. Lac qui Parle Township. Riverside Township. Muceded County— Lac qui Parle Township. Mile Lac Quinty— Island Lake Township. Marshall County— Argyle Warren Bloomer Township Marshall County— Argyle Yenney Fairmont Truman Tenhassen Township Meker County— Forest Prairie Township Meker County— Forest Prairie Township Meker County— Forest Prairie Township Mile Lacs County— Isle Harbor Township Morrison County— Isle Harbor Township	1 1 3 2 2 2 1 2 9 5 1 1 2 1 7 7 2 1 1 2 1 2 1 1 2 1 2 1 2 1		1		1 1 1 3 2 2 2 2 1 1 2 2 8 5 1 1 7 7 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	
Elbow Lake Norcross North Ottowa Township Hennepin County— Brooklyn Township Hubbard County— Park Rapids Hubbard Township Santi County— Braham Athens Township Kanabec County— Mora Ogilvie Ogilvie Pomroy Township Kandiyohi County— Collax Township Gennessee Township. Gennessee Township. Harrison Township. Kittson County— Eriesburg Rat Root Township Lac qui Parle Township. Lac qui Parle Township. Riverside Township. Muceded County— Lac qui Parle Township. Mile Lac Quinty— Island Lake Township. Marshall County— Argyle Warren Bloomer Township Marshall County— Argyle Yenney Fairmont Truman Tenhassen Township Meker County— Forest Prairie Township Meker County— Forest Prairie Township Meker County— Forest Prairie Township Mile Lacs County— Isle Harbor Township Morrison County— Isle Harbor Township	1 1 3 2 2 2 1 2 9 5 1 1 2 1 7 7 2 1 1 2 1 2 1 1 2 1 2 1 2 1		1		1 1 1 3 2 2 2 2 1 1 2 2 8 5 1 1 7 7 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	
Noreross. North Ottowa Township Hennepin County— Brooklyn Township. Hubbard County— Park Rapids. Hubbard Township. Isanti County— Braham. Athens Township. Kanabee County— Mora. Ogilvie. Pomrov Township. Kandiyohi County— Colfax Township. Gennessee Township. Gennessee Township. Harrison Township. Kitson County— Kennedy. Koochiching County— Eriesburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. McLeed County— Acoma Township. McLeed County— Acoma Township. Mswell Township. Mshall County— Island Lake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meeker County— Forest Prairie Township. Mille Lace County— Isle Harbor Township.	1 1 3 2 2 2 1 2 9 5 1 1 2 1 7 7 2 1 1 2 1 2 1 1 2 1 2 1 2 1		1		1 1 1 3 2 2 2 2 1 1 2 2 8 5 1 1 7 7 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	
North Ottowa Township Hennepin County— Brooklyn Township Hubbard County— Park Rapids. Hubbard Township Santi County— Braham Athens Township Kanabec County— Mora. Ogilvie. Pomroy Township Kandiyohi County— Coliax Township Gennessee Township. Gennessee Township. Harrison Township. Kitson County— Kennedy Koochiching County— Eriesburg Rat Root Township. Lac qui Parle County— Dawson Lac qui Parle Township. Mile Lod County— Island Lake Township. McLeod County— Acoma Township. McLeod County— Island Lake Township. Marshall County— Island Lake Township. Marshall County— Argyle Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meker County— Forest Prairie Township. Meker County— Forest Prairie Township. Mile Lacs County— Isle Harbor Township Morring County— Isle Harbor Township	1 3 2 2 2 1 2 9 5 1 1 2 1 7 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		1		1 3 2 2 2 2 1 2 2 8 5 1 1 2 2 1 7 7 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1	
Hennepin County— Brooklyn Township Brooklyn Township Hubbard County— Park Rapids. Hubbard Township Isanti County— Braham Athens Township Kanabec County— Mora Ogilvie. Pomroy Township Kandiyohi County— Colax Township Gennessee Township Gennessee Township Harrison Township Kitson County— Ericsburg Kanedy Koochiching County— Ericsburg Rat Root Township Lac qui Parle County— Dawson Lac qui Parle Township Mawell Township McLeod County— Acoma Township Marball County— Island Lake Township Marshall County— Argyle Warren Bloomer Township Martin County— Fairmont Truman Tenhassen Township Meker County— Fairrie Township Meker County— Forest Prairie Township Meker County— Forest Prairie Township Mille Lacs County— Isle Harbor Township Morrison County— Isle Harbor Township Morrison County— Isle Harbor Township Morrison County— Isle Harbor Township Morrison County— Isle Harbor Township Morrison County— Isle Harbor Township Morrison County— Martin County— Morrison County— Morrison County— Morrison County— Martin County—	3 2 2 2 9 5 1 1 2 1 7 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1		1		3 2 2 2 1 2 8 8 5 1 1 2 1 7 2 1 7	
Brooklyn Township. Hubbard County— Park Rapids. Hubbard Township. Isanti County— Braham. Athens Township. Kanabec County— Mora. Oglivie. Pomroy Township. Kandiyohi County— Colfax Township. Gennessee Township. Gennessee Township. Harrison Township. Kittson County— Kennedy. Koechiching County— Eriesburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Milson County— Acoma Township. McLeed County— Acoma Township. McLeed County— Island Lake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meker County— Forest Prairie Township. Mille Lacs County— Isle Harbor Township. Morring County— Isle Harbor Township.	2 2 1 2 9 5 1 1 2 2 1 7 7 2 1 1 1 2 2 3 1 1		1		2 2 1 2 2 8 8 5 1 1 2 2 1 7 7 2 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 1	
Hubbard County— Park Rapids. Hubbard Township. Isanti County— Braham. Athens Township. Kanabec County— Mora. Ogilvie. Pomroy Township. Kandiyohi County— Colax Township. Gennessee Township. Harrison Township. Harrison Township. Kittson County— Kenedy. Koochiching County— Eriesburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Riverside Township. McLeod County— Acoma Township. McLeod County— Island Jake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Argyle. Warren. Brirmont. Truman. Tenhassen Township. Meker County— Forest Prairie Township. Meker County— Forest Prairie Township. Meker County— Forest Prairie Township. Mille Lacs County— Isle Harbor Township. Mornor County— Isle Harbor Township.	1 2 9 5 1 1 2 1 7 7 2 1 1 1 9 1 2 3 1 1		1		2 1 2 8 5 1 1 2 1 7 2 1 7	
Banti County— Braham Athens Township. Kanabec County— Mora. Ogilvie. Pomroy Township. Kandiyohi County— Colax Township. Gennessee Township. Green Lake Township. Harrison Township. Kittson County— Kennedy Koochiching County— Ericsburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Miverside Township. Mile Lac County— Island Lake Township. Marshall County— Acoma Township. Marshall County— Argyle. Warren Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meker County— Forest Prairie Township. Meker County— Forest Prairie Township. Mile Lacs County— Isle Harbor Township. Morring County— Isle Harbor Township.	1 2 9 5 1 1 2 1 7 7 2 1 1 1 9 1 2 3 1 1		1		2 1 2 8 5 1 1 2 1 7 2 1 7	
Banti County— Braham Athens Township. Kanabec County— Mora. Ogilvie. Pomrov Township. Kandiyohi County— Colax Township. Gennessee Township. Green Lake Township. Harrison Township. Kittson County— Kennedy Koochiching County— Ericsburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Miverside Township. Mile Lad County— Island Lake Township. Marshall County— Acoma Township. Marshall County— Argyle. Warren Bloomer Township. Martin County— Fairmont Truman. Tenhassen Township. Meker County— Forest Prairie Township. Meker County— Forest Prairie Township. Meker County— Forest Prairie Township. Mile Lacs County— Isle Harbor Township. Morrison County— Isle Harbor Township. Morrison County— Isle Harbor Township.	1 2 9 5 1 1 2 1 7 7 2 1 1 1 9 1 2 3 1 1		1		1 2 8 5 1 1 2 1 7 7 2 1 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 3 2 3	
Banti County— Braham Athens Township. Kanabec County— Mora. Ogilvie. Pomrov Township. Kandiyohi County— Colax Township. Gennessee Township. Green Lake Township. Harrison Township. Kittson County— Kennedy Koochiching County— Ericsburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Miverside Township. Mile Lad County— Island Lake Township. Marshall County— Acoma Township. Marshall County— Argyle. Warren Bloomer Township. Martin County— Fairmont Truman. Tenhassen Township. Meker County— Forest Prairie Township. Meker County— Forest Prairie Township. Meker County— Forest Prairie Township. Mile Lacs County— Isle Harbor Township. Morrison County— Isle Harbor Township. Morrison County— Isle Harbor Township.	2 9 5 1 1 2 1 7 2 1 1 1 2 1 1 2 1 2 3 3 1 1 1 2 3 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 1		1		2 8 5 1 1 2 1 7 2 1	
Athens Township. Kanabec County— Mora. Ogilvie. Pomroy Township Kandiyohi County— Coliax Township. Gennessee Township. Green Lake Township. Harrison Township. Kittson County— Kennedy. Koochiching County— Eriesburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Maxwell Township. Riverside Township. McLeod County— Acoma Township. Marbanlo County— Island Jake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meker County— Forest Prairie Township. Mile Lacs County— Isle Harbor Township. Morrison County— Isle Harbor Township.	2 9 5 1 1 2 1 7 2 1 1 1 2 1 1 2 1 2 3 3 1 1 1 2 3 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 1		1		2 8 5 1 1 2 1 7 2 1	
Kanabec County— Mora Ogilvie. Pomrov Township Kandilyohi County— Coliax Township Gennessee Township Gennessee Township Harrison Township Kittson County— Kennedy. Koochiching County— Ericsburg Rat Root Township Lac qui Parle County— Dawson Lac qui Parle Township Maxwell Township McLeod County— A coma Township McLeod County— Island Lake Township Marshall County— Argyle Warren Bloomer Township Martin County— Fairmont Truman Tenhassen Township Meeker County— Forest Prairie Township Mile Lacs County— Isle Harbor Township Morrison County— Isle Harbor Township	9 5 1 1 2 1 7 2 1 1 1 2 1 1 2 1 1 2 3 3 3 1 1 1 2 3 3 1 1 2 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 1		1		8 5 1 1 2 1 7 2 1 7 2 1	
Mora. Ogilvie	5 1 1 2 1 7 2 1 1 1 2 1 1 2 1 2 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 1		1		5 1 1 2 1 7 2 1 1 2 1 7 2	
Ogilvie Pomroy Township Kandiyohi County— Colax Township Gennessee Township Green Lake Township Harrison Township Kittson County— Kennedy Koochiching County— Ericsburg Rat Root Township Lac qui Parle County— Dawson Lac qui Parle Township Maxwell Township Riverside Township McLeod County— Acoma Township Mahnomen County— Island Lake Township Marshall County— Argyle Warren Bloomer Township Martin County— Fairmont Truman Tenhassen Township Meeker County— Forest Prairie Township Kingston Township Mile Lacs County— Isle Harbor Township Morrison County— Isle Harbor Township	5 1 1 2 1 7 2 1 1 1 2 1 1 2 1 2 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 1		1		1 1 2 1 7 2 1	
Pomroy Township. Kandiyohi County— Coliax Township. Gennessee Township. Gennessee Township. Harrison Township. Kitson County— Kennedy. Koechiching County— Eriesburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Maxwell Township. Miverside Township. Miverside Township. McLeod County— Acoma Township. Mahnomen County— Island Lake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meeker County— Forest Prairie Township. Mile Lacs County— Isle Harbor Township.	1 2 1 7 2 1 1 1 9 1 2 3 3 1 1		1		1 2 1 7 2 1	
Collax Township. Gennessee Township. Green Lake Township. Harrison Township. Kitson County— Kennedy. Koochiching County— Ericsburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Maxwell Township. Miverside Township. McLeed County— Acoma Township. Mahnomen County— Island Lake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meeker County— Forest Prairie Township. Kingston Township. Mile Lacs County— Isle Harbor Township.	2 1 7 2 1 1 1 9 1 2 3 1		1		2 1 7 2 1	
Gennessee Township. Green Lake Township. Harrison Township. Harrison Township. Kittson County— Kennedy. Koochiching County— Eriesburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Maxwell Township. Miverside Township. Miverside Township. McLeod County— Acoma Township. Mahnomen County— Island Lake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meker County— Forest Prairie Township. Mile Lacs County— Isle Harbor Township.	2 1 7 2 1 1 1 9 1 2 3 1		1		2 1 7 2 1	
Green Lake Township. Harrison Township. Kittson County— Kennedy. Koochiching County— Ericsburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Maxwell Township. MicLeod County— Acoma Township. Mahnomen County— Island Lake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meeker County— Forest Prairie Township. Kingston Township. Mile Lacs County— Isle Harbor Township.	1 7 2 1 1 1 9 1 2 3		1		1 7 2 1	
Harrison Township. Kittson County— Kennedy. Koochiching County— Ericsburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Maxwell Township. Miverside Township. Acoma Township. McLeod County— Acoma Township. Mahnomen County— Island Lake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meeker County— Forest Prairie Township Kingston Township. Mile Lacs County— Isle Harbor Township.	7 2 1 1 9 1 2 3		1		7 2 1	
Kittson County— Kennedy Koochiching County— Ericsburg. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Maxwell Township. Miceside Township. McLeod County— Acoma Township. Mahnomen County— Island Lake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meeker County— Forest Prairie Township. Kingston Township. Mile Lacs County— Isle Harbor Township.	2 1 1 9 1 2 3		1		7 1 2	
Kennedy. Koochiching County— Ericsbure. Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Maxwell Township. Riverside Township. McLeod County— Acoma Township. Mahnomen County— Island Lake Township. Marshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meeker County— Forest Prairie Township Kingston Township. Mile Lacs County— Isle Harbor Township.	1 1 9 1 2 3		1		7 1 2	
Ericsburg Rat Root Township. Lac qui Parle County— Dawson. Lac qui Parle Township. Maxwell Township. Mickeod County— Acoma Township. Mahnomen County— Island Lake Township. Marshall County— Argyle. Warren Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meeker County— Forest Prairie Township Kingston Township. Mille Lacs County— Isle Harbor Township.	1 9 1 2 3		1		7 1 2	
Dawson Lac qui Parle Township Maxwell Township Riverside Township Riverside Township McLeod County Acoma Township Mahnomen County Island Lake Township Marshall County Argyle Warren Bloomer Township Martin County Fairmont Truman Tenhassen Township Meeker County Forest Prairie Township Kingston Township Mille Lacs County Isle Harbor Township Morrison County Morrison County	1 9 1 2 3		1		2	
Dawson Lacqui Parle Township Maxwell Township Riverside Township Riverside Township McLeod County Acoma Township Mahnomen County Island Lake Township Marshall County Argyle Warren Bloomer Township Martin County Fairmont Truman Tenhassen Township Meeker County Forest Prairie Township Kingston Township Mille Lacs County Isle Harbor Township Morrison County Morrison County	3		1	1	2	
Dawson Lacqui Parle Township Maxwell Township Riverside Township Riverside Township McLeod County Acoma Township Mahnomen County Island Lake Township Marshall County Argyle Warren Bloomer Township Martin County Fairmont Truman Tenhassen Township Meeker County Forest Prairie Township Kingston Township Mille Lacs County Isle Harbor Township Morrison County Morrison County	3				2	
Acoma Township Mahnomen County— Island Lake Township Marshall County— Argyle Warren Bloomer Township Martin County— Fairmont Truman Tenhassen Township Meeker County— Forest Prairie Township Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—	3				2	
Acoma Township Mahnomen County— Island Lake Township Marshall County— Argyle Warren Bloomer Township Martin County— Fairmont Truman Tenhassen Township Meeker County— Forest Prairie Township Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—	3					
Acoma Township Mahnomen County— Island Lake Township Marshall County— Argyle Warren Bloomer Township Martin County— Fairmont Truman Tenhassen Township Meeker County— Forest Prairie Township Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—	1					
Arshall County— Argyle. Warren. Bloomer Township. Martin County— Fairmont. Truman. Tenhassen Township. Meeker County— Forest Prairie Township Kingston Township. Mille Lacs County— Isle Harbor Township.					1	
Marshall County— Argyle Warren Bloomer Township Martin County— Fairmont Truman Tenhassen Township Meeker County— Forest Prairie Township Mille Lacs County— Isle Harbor Township Morrison County—	1	1			1	
Argyle. Warren. Bloomer Township Martin County— Fairmont. Truman. Tenhassen Township Meeker County— Forest Prairie Township Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—	•					
Warren Bloomer Township Martin County— Fairmont. Truman. Tenhassen Township Meeker County— Forest Prairie Township Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—	7				7	
Martin County— Fairmont Truman Tenhassen Township Meeker County— Forest Prairie Township Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—	1				1	
Fairmont Truman Tenhassen Township Meeker County— Forest Prairie Township Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—	1				1	
Truman Tenbassen Township Meeker County Forest Prairie Township Kingston Township Mille Lacs County Isle Harbor Township Morrison County	-				2	
Tenhassen Township Meeker County— Forest Prairie Township Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—	2	********	**********	**********	2	
Meeker County— Forest Prairie Township Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—	2 2		***********		2	
Forest Prairie Township Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—						
Kingston Township Mille Lacs County— Isle Harbor Township Morrison County—	8				8	
Mille Lacs County— Isle Harbor Township Morrison County—	1		********		1	*********
Morrison County-	-				2	
Two Rivers Township	2	*********	**********		-	
	1				1	
Mower County—	•		***********			
Austin	2				2	
Olmsted County—					10	
Rochester	10		**********		10	
Ottertail County-	-				26	
Fergus Falls	26		**********	**********	1	
Underwood	î				1	
Rice County— Faribault	1				1	
St. Louis County—	•	1	1			
Chisholm	1				.1	
Duluth	12			1	11 5	
Stuntz Township	5	*********	*********		9	**********
Sibley County—	1				1	
Arlington	i				î	
Stearns County—			1			
Brooten		1				
Kimball	1				4	

SMALLPOX—Continued.

State Reports for January and February, 1920-Vaccination Histories-Continued.

			Vaccination history of cases.				
Place.	New cases reported.	Deaths.	Vaccinated within 7 years. preceding attack.	Last vaccinated more than 7 years preceding attack.	Never success- fully vaccinated	History not ob- tained or uncertain.	
Minnesota—Continued. Steele County—							
Owatonna. Clinton Falls Township.	12 6			1	9		
Swift County— Clontarf	10				10		
Todd County— Grey Eagle	7				4	1 8	
Staples	12		1		10	1	
Traverse County— Browns Valley	1				1		
Wabasha County— Elgin Township	1				1		
Washington County-	1				1		
NewportSt. Paul Park	6				6	***********	
Cottage Grove Township	1				1	**********	
Total	362		3	8	309	22	
Montana (February):							
Carton County— Luther	1					1	
Carter County— Sykes	1				1		
Great Falls	16		1	1	14		
Custer County— Miles City	1			*********	1		
Dawson County— Glendive Fergus County—	4				4		
Lewistown	4				.4		
Stanford	11	*******	*********		11 2		
Flathead County—	_	********					
Columbia Falls	2	********			2 3		
Mildred Whitefish	6	********	*********	1 2	4		
Gallatin County— Manhattan (R. D.)	1				1		
Granite County— Philipsburg	2			1	1		
Hill County—							
Lewis and Clarke County—	1				1		
Marysville Lincoln County—	2				2		
Libby	6				6		
Trov	1				1		
Missoula County— Missoula Park County—	1				1		
Livingston	15		*********	2	13		
Ravalli County— Hamilton (3 R. D.)	. 5				5		
Roosevelt County— Culbertson (R. D.) Wolf Point	5				5		
Wolf Point Resebud County— Forsyth	2				2		
Valley County— Glasgow	4				4		
Wheatland County— Judith Gap	1				1		
Yeilowstone County— Laurel (R. D.)	8				8		
	407	-		-	00	1	
Total	107	********	1	7	. 98		

SMALLPOX-Continued.

State Reports for February, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Death
Alabama:			Indiana:		
Autauga County	1		Allen County	2	
Bibb County	8		Bartholomew County	1	
Butler County Clarke County Clay County			Boone County	1	
Clay County	1		Carroll County		******
Cleburne County	2		Cass County	1	******
Conecuh County	í		Crawford County	2	
Cullman County	1		Dearborn County	9	
Elmore County	i		Delaware County	6	
Escambia County	3		Dubois County	3	
Geneva County Jefferson County	2		Favette County	4	
Jefferson County	82		Floyd County	i	
Lamar County	1 2		Fountain County	13	
Madison County	2		Fulton County	2	
Marion County Marshall County	2		Gibson County	27	
Marshall County	1		Grant County	19	
Mobile County	8	*********	Greene County	1	
Monroe County	1		Hancock County	1	
Montgomery County	1	********	Howard County	36	
Perry County	1	********	Huntington County	17	
Pickens County	1		Jackson County	49	
Pike County	3		Jasper County	6	******
Randolph County	2		Jay County	1	
Talladega County	1	********	Jennings County Kosciusko County	2	******
Tallapoosa County Tuscaloosa County		********	Lobe County	.1	******
Tuscaloosa County	2		Lake County	18	
Washington County	1			1	
Matel	100		Madison County	3	******
Total	136		Martin County	39	
lahas			Martin County	1	
laho:			Monroe County	1	******
Boise County-	-		Montgomery County	1	
Boise	28		Morgan County	2	
Bannock County-	-		Orange County	2	
Pocatello	3	********	Parke County	.8	
Bancroft	12		Pike County	11	
Grace Bingham County— Blackfeet	6		Poser County	5	******
Blockfoot	10		Posey County	9	*******
Diackieet	18		Putnam County	3	
Bonner County—	0		Rush CountyShelby County		
Sandpoint			Spencer County	15	
Bonners Ferry Bonneville County-	2		St. Joseph County	49	
Idaho Falls	4		Sullivan County	1	*******
Butte County—	•	*********	Tippecanoe County Tipton County Vanderburg County Vermilion County	8	
Area Area	10		Tipton County	3	******
ArcoCassia County—	12	*********	Vanderburg County	6	
Oakley	8		Vermilion County	2	
Elmore County—		********	Vigo County	6	
Mountain Home	5		Wabash County	28	
Franklin County	53	********	Warren County	11	
Preston	25	********	Warrick County	10	
Fremont County	1		Wayne County		
Idaho County—	- 1	*********	Wells County	5	
Grangeville	6		Wells County	21	
Kootenai County-	- 1		-		
Coeur d'Alene	3		Total	486	
Coeur d'Alene Potlatch	1		=		
Latah County-	-1		Iowa:		
Moscow	5		Allamakee County	1	
Genessee	3		Benton County	2	
Lewis County	1		Blackhawk County	53	
Madison County	18		Blackhawk County Boone County	3	
Nez Perce County-	-		Bremer County	2	
Lewiston	1		Buchanan County	2	
Power County	1		Calhoun County	2	
Shoshone County—	-		Calhoun County	6	
Wallace	2		Cedar County	2	
Leton County—	- 1		Cerro Gordo County	24	
Driggs	1		Cherokee County	i	
Driggs Twin Falls County	29		Crawford County	2	
Washington County-			Davis County	4	
Weiser	1 .		Davis County	2	
Canyon County-	-1.		Emmet County	ĩ l	
Canyon County— Nampa	7 .		Fayette County	i	
Caribou County	3		Floyd County	i	
			Franklin County	6	
Total	268		r remont County	1	
			Guthrie County	21	

SMALLPOX—Continued.

State Reports for February, 1920-Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Death
owa—Continued. Grundy County Hardin County			Nebraska—Continued.		
Grundy County	2		Nebraska—Continued. Seward County	12	
Hardin County	13		Thurston County	3	
Harrison County	1		Valley County	8	
Jasper County	12		Washington County	1	
Jones County	15		Webster County	.2	
Lyon County	15		York County	14	
Lyon County Mahaska County Marshall County O'Brien County	2 2		Total	625	-
Marshall County	4		Total	020	
O'Brien County	1		North Carolina:		
Page County	3		Alexander County	3	
Polk County	7		Bertie County	2	
Pottowattamia County	6		Bladen County	1	
Seott County Sioux County Story County Tama County	73		Buncombe County	1	
Sioux County	1		Burke County	1	
Story County	8 2 2 1	********	Burke County	3	
Tama County	2		Catawba County	i	
wapeno County	2		Cherokee County	9	
Wayne County	1		Chowan County	2	
Winnebago County	2	********	Cleveland County	10	
Winneshiek County	1		Commons County	1	
mate1	000		Craven County	1	
Total	278		Cumberland County	1	******
-baseline F			Duplin County	4	
ebraska:			Durham County	8 3 5	
Adams County	7	********	Edgecombe County	3	
Antelope County	1	*******	Forsyth County		******
Boone County	10	*******	Franklin County	1	
Box Butte County Boyd County			Gaston County	8	******
Buffolo County	19		Gates County	3	*******
Buffalo County			Granville County	33	*******
Burt County	2 2	******	Halifax County Haywood County	4	*******
Chase County		*******	Haywood County	10	******
Cheyenne County	25 3		Iredell County	3 7	******
Colfax County	8		Johnston County	7	*******
Cuming County	î	********	Lee County	3	******
Cuming County Dawson County	6		Lenoir County	5	******
Deuel County	21	********	Madison County	3	*******
Dixon County	3	********	Martin County Nash County	1	*******
Dodge County	13	*********	New Hanover County	4	*******
Douglas County	47	********	Percuimane County	1	*******
Dundy County	31	*********	Perquimans County Person County	i	*******
Fillmore County	7	*********	Pitt County	83	*******
Franklin County	11	********	Robeson County	10	
Frontier County	7	*********	Rockingham County	11	
Furnas County	2	*********	Rowan County		*******
Gage County	12	*********	Rutherford County	4 7	*******
Carfield County	9		Sampson County		
Gasper County	ī	*********	Sampson County Scotland County	12	
Greeley County	i		Stokes County	ĩ	*******
Hall County	11	*********	Surry County	8	*******
Hamilton County	11		Wake County	2	
Harlan County			Washington County Wayne County	35	
Hitchcock County	3		Wayne County	18	
Holt County	4		Wilson County	1	
Hooker County			Yadkin County	3	
Howard County			_		
Jefferson County	6		Total	340	
Johnson County Keith County	2				
Keith County	1		North Dakota:		
Keyapaha County Lancaster County		*******	Walsh County	3	
Lancaster County	111	********	Cavalier County	1	
Lincoln County	1 .		Ramsey County-	- 1	
Merrick County	17		Ramsey County— Devils Lake Pembin County	6	
Nemaha County		******	Pembin County	3	
Nemaha County Nuckolls County	22	*******			
Otoc County Pawnee County Phelps County Pierce County Platte County Platte County	5 .		Fargo	9 .	
Pawnee County	23 .	*******	Adams County	1	
Phelps County	6 .	******	Steele County	2	
Pierce County	1 .		Burleigh County— Bismarck		
Platte County	8 .		Bismarck	1 1	
Polk County Redwillow County	2 .		and a second		
Redwillow County	4 1.		Total	26	
Richardson County	12 .		_		
Saline County	1 .		Oregon: Benton County Clackamas County		
Saunders County	1 .		Benton County	6 .	
Sumulare County	16 .		Clackamas County	40 1.	
Scotts Bluff County	13		Clatsop County	13	

SMALLPOX—Continued.

State Reports for February, 1920-Continued.

Place	Cases.	Deaths.	Place.	Cases.	Deaths.
Oregon—Continued.			Wash ington-Continued.		
Coos County	38		Chelan County	5 9	
Deschutes County Douglas County	1 12		WenatcheeClallam County—	v	
Gilliam County	10		Port Angeles	1	1
Gilliam County Hood River County	6		Clarke County-	•	
Jackson County	2		Vancouver	30	
Jenerson County	ī		Columbia County	11	
Lane County	6		Dayton	8	
Lincoln County	2		Cowlitz County	3	
Lann County	11		Castle Rock	4	
Marion County	11		Kelso	3	
Morrow County	3		Douglas County	3	
Multnomah County	14		Ferry County	5	
Polk County	3		Franklin County	5	
Tillamook County	9		Grant County	29	
Umatilla County			Coulee City	18	*******
Union County	1 15		Ephrata	2	
Wasco County Washington County Portland	13	********	Grays Harbor County— Elma. Hoquiam.		
Washington County	234	********	Honniers	10	
rortimid	204	********	Ooksille		********
Matal.	426		Oakville Island County	3	*******
Total	436	********	King County	33	*******
			King County	93	*******
South Carolina:			Tolt		
South Carolina:			Tolt	2	
Anderson County	1		Cle Elum.	25	
Barnwell County	11		Ellensburg		
Charleston County		********	Tamie County	12	********
Chesterfield County Dorchester County	1		Lewis County	16	
Greenville County	9	*********	Lincoln County	10	
Greenwood County	9		Davenport	1	
Terrens County	9	*********	Mason County	4	
Laurens County	1		Okanogan County	9	
Lexington County	i		Pacific County—	2	
Newberry County Orangeburg County	i		Parmond		
Pickens County	4		Raymond South Bend	3	
Richland County	i	*******	Pend Oreille County	3	*******
Spartanburg County	11		Mettaline Falls	5	
Sumter County	1		Pierce County—	0	
Sumter CountyYork County	9		Tacoma	41	
1 ork County			Skagit County	12	
Total	69		Burlington	23	
* 0101	00	********	Mount Vernon	2	
			Mount Vernon Snohomish County	17	
outh Dakota:			Everett	13	
Beadle County	4		Granite Falls	18	
Butte County	6		Snohomish	6	
Clark County	2	********	Spokane County	6	
Codington County	2		Cheney	2 5	
Custer County	10		Deer Park	5	
Davison County	7 7	********	Hillyard	2	
Deuel County		********	Medical Lake	4	
Douglas County	.4		Spokane	206	
Hanson County	57	********	Stevens County	10	
Hughes County	22	********	Chewelah	31	
Hughes County	2	********	Thurston County	2	
Hutchinson County Jackson County	5		Olympia Tenino	2	
Jackson County			Tenino	2	
Jerauld County	7	*******	Walla Walla County	8	
Kingsbury County Lincoln County	. 7	********	Waitsburg	6	
Minnehele County	11		Walla Walla	19	
Minnehaha County Pennington County	18		Whatcom County	5	
Perkins County	3		Beinngnam	33	
Sanborn County	2		Sumas	1	
Turner County	2		Blaine	5	
Yankton County	3		Whitman County—	-	
a director county			Malden	5	
Total	187		Yakima County	19	
4 Otal	101	********	Grandview	1	
			MaldenYakima County GrandviewZillah	1	
Vashington:			wapato	2	
Adams County	5		Granger	2	
Lind	2		ToppenishYakima	3	
Ritzville	8		Yakima	38	
Asotin County-			Total	955	
Clarkston					

SMALLPOX-Continued.

State Reports for February, 1920-Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths,
Wisconsin:			Wisconsin-Continued.		
Barron County	1		Racine County	2	
Brown County	38		Richland County	ī	
Calumet County	148		Rock County	37	
Chippewa County	1		Sauk County	1	
Clark County	10		Sawyer County	3	
Crawford County	14		Shawano County	18	
Dane County	10		Sheboygan County	10	
Dodge County	3		Taylor County	6	********
Door County	11		Vernon County	7	
Douglas County	18		Washington County		
Eau Claire County	2		Waukesha County	3	********
Fond du Lac County	30	********	Waupaca County	1	
Forest County	30			9	
Count County			Waushara County	4	
Grant County	1		Winnebago County	3	
Jackson County	1		Wood County	22	
Kenosha County	19	*********	I I-		
La Crosse County	3		Total	635	
Lafayette County	2				
Langlade County	10				
Lincoln County	15		Wyoming:		
Manitowoc County	9		Albany County	13	
Marathon County	15		Big Horn County	14	
Marinette County	4		Campbell County	1	
Marquette County	5		Converse County	13	
Milwaukee County	71		Crook County	5	
Monroe County	8		Johnson County	4	
Oconto County	18		Laramie County	6	
Oneida County	9		Natrona County	27	
Outagamie County	22		Sheridan County	24	
Pepin County	3		Uinta County	6	
Polk County	2		Weston County	1	
Portage County	4				
Price County			Total	114	

City Reports for Week Ended Mar. 13, 1920.

		1	1		
Aberdeen, S. Dak	1		Fort Smith, Ark	1	
Aberdeen, Wash	2		Fort Worth, Tex	4	
Akron, Ohio	9		Galesburg, Ill	ő	
Alameda, Calif	2		Gary, Ind.	2	********
Ann Arbor, Mich	2		Grand Rapids, Mich	i	********
Appleton, Wis	ĩ		Granite City, Ill		
Ashland, Ky	i		Great Falls, Mont	- 1	********
Atlanta, Ga.	3		Creen Pen Wie	9	
Battle Creek, Mich			Green Bay, Wis		
Dattle Creek, Mich.			Hammond, Ind	4	
Bellingham, Wash	0		Hoquiam, Wash	1	********
Birmingham, Ala	9		Hot Springs, Ark	1	********
Bloomington, Ind	1		Huntington, Ind	8	
Bluefield, W. Va	16		Indianapolis, Ind	18	
Boise, Idaho	11		Iowa City, Iowa	1	
Burlington, Iowa	1		Jacksonville, Ill	4	
Canton, Ohio	3		Joplin, Mo	1	
Cedar Rapids, Iowa	7		Kalamazoo, Mich	1	
Charleston, S. C	. 2		Kansas City, Kans	1	
Chattanooga, Tenn	2		Kansas City, Mo	23	
Chicago, Ill	5		Kenosha, Wis	4	
Cleveland, Ohio	3		Kewanee, Ill	i	
Clinton, Iowa	3		Knoxville, Tenn	î	
Columbia, S. C	ĭ		Kokomo, Ind	16	*********
Columbus, Ga	i		La Crosse, Wis	10	
Council Bluffs, Iowa	- 1		La Fayette, Ind	1	********
Cumberland, Md	i		La Fayette, Ind		
Dellas Tor	25	********	Lawrence, Kans	1	
Dallas, Tex	20	*********	Lima, Ohio	4	
Danvine, In			Lincoln, Nebr	28	********
Davenport, Iowa	14		Logansport, Ind	8	
Dayton, Ohio	5		Long Beach, Calif	2	
Decatur, Ill	5		Los Angeles, Calif.	3	
Denver, Colo	22		Louisville, Ky	1	
Des Moines, Iowa	1		Lynchburg, Va	1	
Detroit, Mich	17		Macon, Ga	2	
Dubuque, Iowa	2		Marinette, Wis	1	
Duluth, Minn	5		Marion, Ind	1	
Eau Claire, Wis	2		Marion, Ohio	ā	
Everett, Wash	1		Memphis, Tenn	9	
Flint, Mich	i		Middletown, Ohio	1	
Fond du Lac, Wis	6		Milwaukee, Wis	1î	
Fort Scott, Kans		*********	Minneapolic Minn	0.1	
a dit secret, and a second			Minneapolis, Minn	39	

SMALLPOX-Continued.

City Reports for Week Ended Mar. 13, 1920-Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Mishawaka, Ind. Misscula, Mont. Mobile, Ala. Muskogee, Okla. Newcastle, Ind. New Orleans, La. Oakland, Calif. Oklaboma City, Okla. Omaha, Nebr. Oshkosh, Wis. Paducah, Ky. Parsons, Kans. Philadelphia, Pa Portland, Oreg. Portsmouth, Ohio.	1 1 2 2 1 1 2 2 1 1 1 1 1 5 1 1 2 7 1 1 2 7 1 1 2 7 1 1 1 1 1 1 1 1	8	St. Joseph, Mo St. Louis, Mo Salt Lake City, Utah San Bernardino, Calif San Francisco, Calif Seattle, Wash Sioux Falls, S. Dak Spokane, Wash Spokane, Wash Springfield, Ohio Steubenville, Ohio Steubenville, Ohio Steubenville, Ohio Steubenville, Ohio Steubenville, Ohio Terre Haute, Ind Tacoma, Wash Terre Haute, Ind	27 13	
Portsmouth, Va Quincy, III Racine, Wis Reno, Nev Reno, Nev Richmond, Va Reanoke, Va Rock Island, III Sacramento, Calif. St. Cloud, Minn	2 2 3 1 1 1 2 2		Topeka, Kans. Trinidad, Golo. Vancouver, Wash. Waco, Tex. Walla Walla, Wash. Wichita, Kans. Winston-Salem, N. C. Yakima, Wash.	2	

Outbreak on the Mexican Border, 1919-20.

With an outbreak of smallpox in the State of Chihuahua, Mexico, in November, 1919, the United States Public Health Service immediately took steps to prevent the introduction of the disease into this country. A modified quarantine was established, which restricted immigration from the infected districts, and provision was made for vaccination and fumigation.

From November 3, 1919, to March 11, 1920, there occurred 143 cases of smallpox in five towns in Chihuahua close to the border. Only 7 cases (6 Mexicans and 1 American) developed in the United States, one of which, a Mexican, died.

Vaccination of traffic, disinfection, and fumigation, as well as encouragement of sanitation, are being continued.

TETANUS.

Charleston, S. C., New Orleans, La., and New York, N. Y.

During the week ended March 13, 1920, there were reported one death from tetanus at Charleston, S. C., one at New Orleans, La., and one at New York, N. Y.

TRICHINOSIS.

California-February, 1920.

During February, 1920, one case of trichinosis was reported in California.

TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 836, and Weekly reports from cities, p. 861.

TYPHOID FEVER.

State Reports for January and February, 1920.

Place.	New cases reported.	Place.	New cases reported.
Alabama (February):		Minnesota (January):	
Baldwin County	3	Beltrami County-	
Butler County	2	Bemidji	1 1
Colbert County	2	Big Stone County-	
Colbert County	1	Graceville	1
Dallas CountyElmore County	1 1 1 6 2 1 1 2 7	Clay County—	
Elmore County	1	Moorhead	1
Geneva County	1	Crow Wing County— Brainerd	
Jefferson County	0	Brainerd	1
Marengo County	1	Crosby	,
Montgomery County	1	Excelsion County—	
Pike County	2	Excelsior	1
Pike County	7	Morrison County—	
Turisquesa contret		Little Falls	
Total	29	Ottertail County-	
		Fergus Falls	1
California (February):		Deer Creek Township	i
Alameda County—		Ramsey County—	
Oakland	3	St. Paul	4
Hayward	1	Redwood County— North Redwood	
Imperial County—		North Redwood	1
Holtville Los Angeles County—	1	St. Louis County—	
Los Angeles County—		Chisholm	1
Los Angeles	3	Duluth	1
Pasadena	2	Embarrass Township Stevens County—	
San Fernando	î	Baker Township	
Orange County	î	Wadena County—	
Riverside County—	•	Rockwood Township	1
Riverside	1	Wilkin County—	
RiversideSacramento County— Sacramento		Wolverton Township	1
San Bernardino County—	3	Total	26
Redlands	1		
RedlandsSan Francisco County—		Montana (February):	
San Francisco	2	Big Horn County—	
		Foster	1
Total	20	Blaine County-	
omnactions (Folymory):		Fort Belknap Silver Bow County—	1
connecticut (February): Litchfield County—	-	Butte	1
Thomaston	1	Dutte	
Middlesex County-		Total	3
Westbrook	1	100000000000000000000000000000000000000	
New Haven County—		Nebraska (February):	
Waterbury New London County—	1	Lancaster County	1
New London County—		Sheridan County	1
New London	1		
Norwich	2	Total	2
m-4-1		N C . V . (D.)	
Total	6	North Carolina (February):	
daho (February):		Cabarrus County	2
Bingham County—		Caswell County	1
Blackfoot		Cumberland County	
Blackfoot	1	Johnston County	1
Canyon County— Nampa	1	Mostin County	1 1
Nampa	1	Martin County	
Total	2	mayne county	
		Total	8
ndiana (February):	1		
Crawford County	1	North Dakota (February):	
Dekalb County	2	Mountrail County	1
Dekalb County	1	McLean County	1
Howard County	2	m-4-3	
Jefferson County	1 1	Total	2
Lake County	8	Onegan (Polymann)	
Madison County	2 1 2 1 8 1 5 1 2 2	Oregon (February):	-
Parks County	5	Portland	2
Parke County	1	South Carolina (Pahrusan)	
Wabash County	2	South Carolina (February):	
Trapasii County	1	Greenville County	i
Whitley County			
Whitley County		Michigana County	

TYPHOID FEVER-Continued.

State Reports for January and February, 1920-Continued.

Place.	New cases reported.	Place.	New cases reported.
South Dakota (February): Beadle County Hand County Pennington County Spink County	4	Wisconsin (February): Bayfield County Clark County Crawford County Iowa County Iron County	2
Washington (February): Chelan County Wenatchee. King County	3 2	Milwaukee County. Outagamie County. Portage County. Racine County. St. Croix County. Sheboygan County. Winnebago County.	1 1
Seattle	1	Total	15
Kittitas County— Ellensburg Snohomish County— Everett.	1	Wyoming (February): Natrona County Uinta County	2 2
Total	8	Total	4

City Reports for Week Ended Mar. 13, 1920.

Place.	Place. Cases.		Place.	Cases,	Deaths.
Atlantic City, N. J.	1		Minneapolis, Minn	14	
Baltimore, Md	3	1	Newark, N. J	1	
Bloomington, Ill	1	1	New Philadelphia, Ohio		
Bluefield, W. Va			New York, N. Y.		
Boston, Mass			Oshkosh, Wis		
Charleston, S. C.		1	Philadelphia, Pa	4	
Chicago, Ill		i	Quincy, Ill		
Dallas, Tex			Richmond, Va	2	
Detroit, Mich	6		Riverside, Calif	1	
Hammond, Ind			Sacramento, Calif		
Independence, Mo	1		St. Louis, Mo	1	
Indianapolis, Ind		1	Salt Lake City, Utah		
Kalamazoo, Mich			Sandusky, Ohio	1	
Kansas City, Mo			San Francisco, Calif		
Lima, OhioLittle Rock, Ark	1		Savannah, Ga	1	
Lockport, N. Y.			Springfield, Mass	1	*******
Lorain, Ohio			Trenton, N. J.	2	
Los Angeles, Calif.	1		Washington, D. C.	1	
Louisville, Ky	i		Waterbury, Conn.	il	
Medford, Mass	î		Transaction, Committee and Com		

City Reports for Week Ended Mar. 13, 1920.

-	Popula- tion as of July 1, 1917	Total deaths	Diph	theria	Mea	asles.		arlet ver.	Tu	ber- osis.
. City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Aberdeen, S. Dak. Aberdeen, Wash. Adams, Mass Akron, Ohio Alameda, Calif. Albany, N. Y. Alexandria, La. Alexandria, Va. Alpena, Mich. Alton, Ill Amesbury, Mass Anaconda, Mont Anderson, Ind Ann Arbor, Mich.	15,926	6	1		10		8			
Aberdeen, Wash	21,392 14,406 93,604				2					
Adams, Mass	14,406	2 47	2	*****	56		124			
Alamada Calif	28 433	13	ĩ		28	1	3	******	2	9
Albany, N. Y.	28,433 106,632	-	i				3 17		1 2 5	
Alexandria, La	16, 232 17, 959	9			1				3	
Alexandria, Va	17,959	5						*****	*****	
Alter III	13,365	5	2		6	1				
Ameshury Mass	23,783 10,200 10,631	3			6					i
Anaconda, Mont	10,631	14								
Anderson, Ind	24, 230	18	····i							7
Ann Arbor, Mich	15,041 16,954	14	1	*****	14					
Appleton Wis	18,005	5			5 4		1	1	*****	1
Atlington Mass	13 073	2		******	6		1 2	*****		
Asbury Park, N. J.	14,629	2 2			3					
Ashland, Ky	14,629 12,195 22,008			*****			2			
Anderson, Ind Ann Arbor, Mich Ansonia, Conn Appleton, Wis Arlington, Mass Asbury Park, N. J Asbland, Ky Ashtabula, Ohio Atlanta Ga	22,008	5 73 17	2		3					1
Atlanta, Ga	196,144	73	3		29 34	1	6 3		6	3
Attleboro Moss	53, 515 19, 776	9	1		01		3	*****	0	1 3 2
Auburn. Me	16.607	3	î				1			
Aurora, Ill	34,795	5								
Ashraohia, Onio Atlanta, Ga Atlantic City, N. J. Attleboro, Mass Auburn, Me Aurora, Ill Austin, Tex Baltimore, Md Bangor, Me Barberton, Ohio Barre, Vt	34,795 35,612 594,637	3 5 2 277	3		11					
Baltimore, Md	594,637	277	34	1	170	6	44	2	29	31
Barberton Ohio	26, 958 14, 187	6	1	*****	9	*****	1		*****	
Barre, Vt.	12,401			*****	4		*****		*****	
Baton Rouge, La.	12,401 17,544	7							2	2
Battle Creek, Mich	30, 159		3		25		22			
Barre, Vt. Baton Rouge, I a. Batte Creek, Mich. Bayonne, N. J. Beatrice, Nebr. Beaumont, Tex. Bedford, Ind.	72, 204 10, 437		3		1				5	
Beatrice, Nebr	10,437	8					*****			
Redford Ind	28, 851 10, 613	15 1	*****	*****				*****	*****	
Bellingham, Wash	34,362		*****		2		5			
Bedford, Ind	18,547		1				6			
Benton Harbor, Mich	11,099				9					
Benton Harbor, Mich Berlin, N. H. Beverly, Mass. Biddeford, Me Billings, Mont. Binghampton, N. Y. Birmingham, Ala Bloomfield, N. J. Bloomington, Ill Bloomington, Ind. Boise, Idaho.	13,892	8				*****	2			1
Biddeford Me	22,128 17,760	3	*****			*****		*****		
Billings, Mont.	17,760 15,123	5			9			*****		*****
Binghampton, N. Y	54,864	26	2 5	1			3		5 7	1
Birmingham, Ala	54, 864 189, 716 19, 013	90	5		10		5		7	3
Bloomfield, N. J		.7	2		7		6			3
Bloomington, III	27,462	11	2		7				2	
Boise, Idaho	35, 951	4	-					*****	*****	
Boise, Idaho Boston, Mass Brazil, Ind	767, 813	250	24	2	199	2	60	1	55	20
Brazil, Ind	27, 462 11, 661 35, 951 767, 813 10, 472 124, 724 16, 318 69, 152	1								
Bridgeport, Conn Bristol, Conn Brockton, Mass Brookline, Mass. Bronswick, Ga. Buffalo, N. Y Burlington, Iowa Burlington, Vt Butte, Mont Zadillac, Mich Zairo, Ill. Zambridge, Mass Zanton, Ill.	124,724	40 12	7		3		5		4	3 1 1
Brockton Mass	69 152	13	3		5		7		1	1
Brookline, Mass.		6	2		5		4		2	
Brunswick, Ga	10, 984 475, 781 25, 144	5							1	1
Buffalo, N. Y	475, 781	174	60	8	60	3	19		16	10
Burlington, Iowa	25, 144	11		*****			4	1		
Butte Mont	21, 802 44, 057 10, 158	11 29	*****	*****	*****		1	*****		2
Cadillac, Mich.	10, 158	8	2		12	******				-
Cairo, Ili	15,995	8			8					
ambridge, Mass	114, 293	30	5		12	1	7		5	5
Canton, Ill	13,674 62,566	5			*****		7			
Santon, Ill	11, 146	23 14	3		2			1	1	
Cedar Rapids, Iowa	38, 033	14					2			
Centralia, III. Chanute, Kans.	11,838 12,968	5	2		4			*****		
hanute, Kans	12,968	5								1
Charleston, S. C	61,041	41	1			1	2	*****		8
harleston, S. C. harleston, W. Va. harlotte, N. C. hattanooga, Tenn helsea, Mass	31,060	15	1			******	1		5	
Chattanooga, Tenn	40,759 61,575	28			3		1 3		4 2	4
	46, 405	21			5		3		-	

	Popula- tion as of July 1, 191	Total deaths	1	ntheria	Ме	asles.		Searlet fever.		iber- losis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cheyenne, Wyo	111,320	4			23		1			
Chicago Heights, III	22,863	4	107		3					
Chicago, Ill	2,547,201	764	137	9	251	3	348	11	279	0
Chillicothe Ohio	29,950 15,625	12	1		1		1			1
Chillicothe, Ohio. Cincinnati, Ohio. Cleveland, Ohio.	414, 248	130	2	2	188	5	88	1	30	
Cleveland, Ohio	414, 248 602, 259	242	25	2	109	3	45	2	26	21
Clinton, lowa,	27,678						1			
Clinton Mass	113,075	6		*****	6	*****	3		1	1 2
Coffeyville, Kaus. Cohoes, N. Y. Columbia, S. C.	18,331	7 9			0	*****	*****		*****	*****
Columbia S. C.	25, 292 35, 165		2		3					*****
Columbus, Ga	26,306	23	1				1			
Columbus Ohio	22), 135	79	1		112		17		4	7
Concord, N. H. Corpus Christi, Tex. Cortland, N. Y. Council Bluffs, Iowa	22,858	9		*****	38					
Corpus Christi, Tex	10,789	9				*****			1	1
Council Bluce Lowe	13,321	8 9		*****	3		4			2
Covington Ky	13,321 31,838 59,623	26	6		35		6 7		*****	1
Covington, Ky	26,773	6	1	1				1	*****	*****
Cumberland, Md	96 696	16	1				1		1	
Dallas, Tex	129,738 22,931 10,037 32,969 20,183	48	6		4		ī		16	2
Danbury, Conn	22,931	5			5					
Danvers, Mass	10,037						2			
Danville, Ill	32,969	15			15	*****	*****	*****		
Danville, Va Davenport, Iowa	49,618	*******	2	*****	3	******	******		2	
Dayton, Ohio.	128 939	44	5		60		6		5	
Dayton, Ohio Decatur, III.	41, 483	9			70					2
Dedham, Mass	19,618	6								
Denver, Colo	41, 483 10, 618 268, 439 104, 052	67	5	2	61		5			15
Des Moines, Iowa	104,052		3	9	100	1	10		*****	
Detroit, Mich	619,648	318	75	9	100	1	99	1	43	25
Dubuque Iowa	13,276 40,096 97,077 26,160	'	1		******		*****	*****	2	1
Dunuth, Minn	97,077	20	î				7		2	5
Durham N. C.	26,160	7							4	1
East Chicago, Ind East Cleveland, Ohio	30,286	13		1			*****			2
East Cleveland, Ohio	13,864				25		1			
Easthampton, Mass	10,656	6	1		16		2		*****	1
East Orange, N. J	43,761	22	2		7		1		1	3
Eau Claire, Wis	77,312 18,887				4					
Elgin, III	28, 562	14	1		1		7		3	
Elizabeth, N.J	88,830		1	1	72		10		2	
Elkhart, Ind Elmira, N. Y	22,273	10	····i		10		5			2
El Paso Tex	22, 273 38, 272 69, 149	14 54	1		18		1		2	
El Paso, Tex. Englewood, N. J.	12,603	2	1		4					
Sureka, Calif	15,142	2 4	i l							
Evanston, Ill	29,304	9			1		5			
Everett, Mass Everett, Wash	40,160	12	3		36		5			
Everett, wash	37, 205 16, 111 129, 828 17, 872	******	1 2		2					*****
Fairmount, W. Va Fall River, Mass Fargo, N. Dak	199 828	39	6	1	13		2		3	
Pargo, N. Dak	17,872	12	3		10		17	1		
Findlay, Ohio		10			1					
flint, Mich	57,386	18	6				14			1
Findlay, Ohio	57,386 21,486 10,564		1				1		1	
Fort Smith, Ark	29,390	2			3		2			
Fort Wayne, Ind	78 014	29	5		9		18			
Fort Wayne, Ind	109,597	22	3				1		4	1
Fostoria, Ohio	109,597 10,959 14,149 19,844	4			5 .				i .	
ramingham, Mass	14, 149	6 .			2 .		1 .			
Freeport, Ill	19,844	15							1	1
Fremont, Ohio Galesburg, III Galveston, Tex Gardner, Mass	11,034 24,629	3			11		2 3			*****
	42,650 17,534					*****	0	*****		
alveston, Tex	42 6511	13	1 1.						2	

Population Apr. 15, 1910.

Ji	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		rlet ver.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Gary, Ind	56,000	16	1				4		1	
Glovester City N. I	17,160 11,375	6			1	*****			*****	
Grand Rapids, Mich	132,861	41	1		118	1	3		2	1
Granite City, Ill	132,861 15,890 113,948 30,017	6	1		18			1		
Great Falls, Mont	1 13, 948	16							2	
Green Bay, Wis	30,017	7	2		4 2		1 2	2	*****	
Greennied, Mass. Greennieh, Conn. Hackensack, N. J. Harmond, Ind. Harrison, N. J. Hartlord, Conn.	12,251 19,594	3	1 4		2		2	-	1	
Hackensack, N. J.	17,412 27,016 17,345 112,831	7	1		5				1	1
Hammond, Ind	27,016	21	4		43		3			
Harrison, N.J.	17,345	45	8		13		5		1 3	
Haverhill, Mass	49, 180	16	7	1	33		i		2	
			7 3							1
Hoboken, N.J.	78,324	16	5		8					
Holoken, N.J. Holyoke, Mass.	78,324 66,503	17	1		17	*****	4		2	1
Hot Springs, Ark	17,690	7			38	*****	2			
Hot Springs, Ark. Houston, Tex. Hudson, N. Y	116,878	65	9		38	*****	2	*****		1
Huntington Ind	12,898 10,982 47,686 21,461	2					2			
Huntington, W. Va	47.686	26	1	1	1					1
Huntington, Ind	21,461				2					
Independence, MoIndianapolis, IndIowa City, Iowa	11.964	6								
Indianapolis, Ind	283,622	96	6	2	121		16		2	1
Iowa City, Iowa. Ironton, Ohio.	11,626 14,079	4	1					*****		
Ironwood Mich	15.095	10			******			1		*****
Ishpeming, Mich Ithaca, N. Y	1 12, 448	3								1
Ithaca, N. Y	16,917	3	1				1			
Jacksonville, Ill	15,506	10			3		1			1
Jamestown, N. Y	37,431	18	2	1			2 2		2	1
Ithaca, N. Y Jacksonville, III Jamestown, N. Y Janesville, Wis Jefferson City, Mo. Jersey City, N. J Lonlin, Mo.	37, 431 14, 411 13, 712	7	*****		5	2	-		*****	
Jersey City N. J	312,557		10		80		5		12	
	33, 400	3					1			
Kalamazoo, Mich	50,408	45	2		7		9		3	1 3
Kankakee, Ill	50, 408 14, 270 102, 096	5		*****	37	*****	4			
Kansas City, Kans	305,816	105	6	1	55	*****	10		6	
Kearny N.J	24,325	9			19	*****			2	1 3
Keene, N. H.	10,725	3								1
Kenosha, Wis	32,833 13,607				3		5			
Kansakce, III Kansas City, Mo. Kearny, N. J Keene, N. H Kenosha, Wis. Kewance, III	13,607	4			1					
Knoxville, Tenn	59,112 21,929	4	3	1	40 20	8	7	*****	2	2
Lackawanna N. Y	16,219	5	1		20				î	
La Crosse, Wis	31,833				17					
Knoxylle, Fenn Kokomo, Ind. Lackawanna, N. Y. La Crosse, Wis. 1 a Fayette, Ind. Lancaster, Ohio. La Salle, Ill.	31,833 21,481 16,086	12			3		3			2
Lancaster, Ohio	16,086	6	1		*****			*****	*****	1
La Salle, III		1		*****	1	*****				
Lawrence, Mass	102, 923 1 19, 363 21, 365	33	2		î		3		1	3
Leavenworth, Kans	1 19, 363	* 4	1		1					
Leominster, Mass	21,365	1								
Lawrence, Mass. Lawrence, Mass. Leavenworth, Kans. Leominster, Mass. Lexington, Ky.	41,997	30 13	1		2				1	3
Lincoln Nebr	37,145 46,957	20	1	1	38	1	4			*****
Little Rock, Ark	58,716		i		1					
Lorangeon, Ky Lima, Ohio Lincoln, Nebr. Little Rock, Ark Lockport, N. Y Logansport, Ind.	46,957 58,716 20,028	8	1				1			
logansport, Ind	21,338	14			35		7			
Long Beach, Calif	29, 163	13	2	*****	10		1	*****	1	
Lorain, Ohio	15,733 38,266				-		1	*****	1	*****
Los Angeles, Calif	38,266 535,485 240,808	166	40	1	57		11		75	18
Louisville, Ky	240,808	82	2		7	*****	-4		17	6
Lowell Mass	114,366	51	5				3		5	3
Lynchburg, Va Lynn, Mass	33,497	8 26			*****		21	····i	1 3	
Macon, Ga	104,534 46,999	26	5		8	*****	4	1	3	
Manchester, Conn	15,859				636		- 1			

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917		Diph	theria.	Mea	sles.		arlet ver.		ber- losis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Mancehster, N. H	79,607 13,931 110,365	35	3	1		1	1	1	3	3
Mankato Minn	110 365	5	1		5		3		1	·····i
Marinette, Wis	114,610				2		1			1
Marion, Ind	114,610 19,923	9			26					1
Marinette, Wis. Marion, Ind. Marion, Ohio. Martinsburg, W. Va. Mattoon, Ill. Medford, Mass. Melrose, Mass. Memphis, Tenn Meriden, Conn. Methuen, Mass. Middletown, N. Y. Middletown, Ohio. Milwaukee, Wis. Minneapolis, Minn Mishawaka, Ind. Missoula, Mont Mobile, Ala Monmouth, Ill Montclair, N. J. Morgantown, W. Va. Morgantown, W. Va. Morgantown, W. Va. Moundsville, W. Va. Muncie, Ind. Muskogee, Okla. Nochus, N. H.	24,129 12,984 12,764 26,681	1	2		17		1			
Martinsburg, W. Va	12,984	*******					1			
Medford Mass	26,764	10			14		3			*****
Melrose Mass	17,724	16 18	*****		15	*****	2	*****	2	*****
Memphis, Tenn	151,877 129,431 14,320 15,890 16,384	86	7		10		1		12	
Meriden, Conn	129,431		3		2		3 1		3	
Methuen, Mass	14,320	5	1				1			
Middletown, N. Y	15,890			*****			10		2	
Middletown, Ohio	16,384	5			. 5		1		2	
Minneapolis Minn	445,008	94 96	28 16	1	69 49		32 8	1	18 17	7 9
Mishawaka, Ind.	17, 083	2	10		40		î		11	9
Missoula, Mont	373, 448 17, 083 19, 075	9								1
Mobile, Ala	59, 201	23					1			2
Monmouth, III	10,346 27,087	1	1 2							
Montgomery Ala	27,087	4	2		6		1		1	
Morgantown W Va	44,039 14,444	3	1	1			1		1	1
Morristown, N. J.	13, 410	3	i			*****				
Moundsville, W. Va	11,515	4			3		1	*****	*****	
Mount Vernon, N. Y	37, 991	21	5		96	1				
Muncie, Ind	25, 653	12	1 3		32		2	1		2
Nachua N H	37, 991 25, 653 47, 173 27, 541	10								
Nashville Tenn	118 136	65	1	*****	3		1 3		5	6
Newark, N. J.	418, 789	107	12	1	239	2	21		23	6
Muskogee, Okla Nashua, N. H. Nashville, Tenn Newark, N. J. New Bedford, Mass	121,622	40	2		13		9		4	4
New Britain, Conn. New Brunswick, N. J. Newburyport, Mass New Castle, Ind. New Haven, Conn.	418, 789 121, 622 55, 385	16	12 2 7	2	8					
New Brunswick, N. J.	23 850 1	3	2						2	
New Cost o Ind	15, 291	3 2					2			
New Haven, Conn	152 275	64	13	*****	33	1	8			
New London, Conn New Condon, Conn New Orleans, La. New Philadelphia, Ohio Newport, R. I. Newton, Mass. New York, N. Y Niagara Falls, N. Y Norfolk, Va. North Adams Mass	14, 144 152, 275 21, 199 377, 010		10		94		1		17	i
New Orleans, La	377,010	211	4	1	14		4		27	18
New Philadelphia, Ohio	10 133 1		1		3					
Newport, R. I	30, 585 44, 343 5, 737, 492 38, 466	5	1				1		1	
New York, N. V	5 797 499	1,676	330	36	21 1,394	31	135	1	140	166
Niagara Falls, N. Y.	38, 466	19	6	30	65	31	100	1	442	100
Norfolk, Va	91, 140 1				3		i		-	
North Adams, Mass	22,019 20,006	11								1
North Attleberg Mass	20,006	5			1					
North Adams, Mass. North Atdams, Mass. North Attleboro, Mass. North Tonawanda, N. Y. Norwalk, Conn. Norwich, Conn. Norwood, Ohio.	11, 248 14, 060	5	2				3			*****
Norwalk, Conn	27 332	11	-				0			*****
Norwich, Conn	21, 923 23, 269 206, 405	ii							1	. 1
Norwood, Ohio	23, 269	5 1			8		3		î	
Oakland, Calif. Oak Park, III. Ogdensburg, N. Y. Oklahoma City, Okla. Olean, N. Y.	206, 405	70 17 5	1		16		6		4	3
Ogdonshurg N V		17	2				7			
Oklahoma City, Okla	16,845	26	1	i	69	1			1	····i
Olean, N. Y	97,588 16,927 177,777	26 14			00				1	
Omaha, Nebr	177,777	48 10	6	1	25		19	1		5
Orean, N. Y Omaha, Nebr Orange, N. J Oshkosh, Wis Paducah, Ky Parkersburg, W. Va	33,636 36,549	10	2		10		1			2
Paducah Ku	36,549		1		43				1	
Parkersburg, W. Va	20,178	3	i		3		2			
	25, 178 21, 059 15, 952	3	4		3					
Pasadena, Calif	49 620 1	16			16		4		6	2
Passaic, N. J	74, 478	20	3		76		1		5	2
Paterson, N. J.	74, 478 140, 512 CO, 666	9	6		76		1		9	
Pasadena, Calif. Passaje, N. J. Paterson, N. J. Pawtucket, R. I. Peckskill, N. Y.	10,666	11 7 17 10	1				2			
COMBRES, AV. I	19,034	6	*****							2 1
Peoria, III	72, 184	17	1 .			1	3			

Population Apr 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		arlet ver.		ber- osis,
· City.	(estimated by U. S. Census Bureau).	l from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Petersburg, Va	25, 817 1, 735, 514 15, 879 14, 275 39, 678	9 673	73	13	642	6	55	4	3 84	76
Philadelphia, Pa Phillipsburg, N. J	15,879	3					1			
Phillipsburg, N. J. Piqua, Ohio Pittsfield, Mass Plainfield, N. J. Platsburg, N. Y. Plymouth, Mass Pontiac, Mich. Port Chester, N. Y. Port Huron, Mich.	14, 275	5			9		1		2	1 2
Pittsfield, Mass	24 330	10			1		1	*****	2	
Plattsburg, N. Y.	24,330 13,111 14,001	3								
Plymouth, Mass	14,001	6								
Port Charter N V	18,006	10	6		2		1		4	1
Port Huron, Mich	16,727 1 18,863 64,720 308,399	5 7	2		8		2		1	
Port Huron, Mich. Portland, Me. Portland, Me. Portsmouth, N. H. Portsmouth, N. H. Portsmouth, Ohio. Portsmouth, Va. Poughkeepsie, N. Y. Providence, R. I. Quincy, Ill. Quincy, Mass. Racine, Wis. Raiway, N. J. Raleigh, N. C. Reddands, Calif.	64,720	18	2 2		3		4			1
Portland, Oreg	308,399	81	4		10		15		3	5
Portsmouth Ohio	11,730 29,356 40,693 30,786	12	2	******	1		0	******		1
Portsmouth, Va	40,693	21						*****		2 2 6
Poughkeepsie, N. Y	30,786	15					1		3	2
Providence, R. I	259,895 56,084	74 19	27	1	18	1	10	2		1
Quincy, Ill.	36,832	13								i
Quincy, Mass	36, 832 39, 022 47, 465 10, 361	10					2			1
Racine, Wis	47,465		1		22		8	*****		
Rahway, N. J	20, 274	11			1			*****	1	1
Redlands, Calif	14,573	-5								
Reno, Nev Richmond, Ind	14,573 15,514	3			28					
Richmond, Ind	25,080 158,702	4	1		9 98		1 3		6	9
Riverside Colif	20 496	73		*****	1	*****	0			
Roanoke, Va	20, 496 46, 282 264, 714	5							1	2
Rochester, N. Y	264, 714	89	17	2	136		10	1	1	
Richmond, Ind. Richmond, Va. Riverside, Calif. Roanoke, Va. Rochester, N. Y. Rock (Ford, Ill. Rock Island, Ill.	56, 739 29, 452	27	2		23	*****	3		5	4
Rocky Mount, N. C.	12,673	1 7			1					
Rome, Ga	15,607 24,259						3		1	
Rome, N. Y.	24, 259				19		6 3		2 3	
St Joseph Mo	68, 984 86, 498	30 26	1		10		2	1	0	2 2 10
Rock Island, Ill. Rocky Mount, N. C. Rome, Ga. Rome, N. Y. Sacramento, Calif. St. Joseph, Mo. St. Louis, Mo. Salem, Mass. Salem, Oreg. Salt Lake City, Utah. San Angelo, Tex. San Bernardino, Calif. Sandusky, Ohio.	86, 498 768, 630 49, 346 21, 274	247	62	5	551	4	31	î	44	10
Salem, Mass	49,346		2				3			1
Salem, Oreg	21,274	7 27			1		1 2		1	
San Angelo, Tex	121, 623 1 10, 321	0								
San Bernardino, Calif	1 10, 321 17, 616 20, 226	9					2		1	1
	20, 226	9 12			2				1	
San Francisco Calif	11, 217 471, 023	175	21	1	133	2	9	1	33	17
Santa Barbara, Calif	471,023 15,360 13,839	5			1					1
Saratoga Springs, N. Y	13,839	10			5					
Saunt Ste. Marie, Mich Savannah Ga	14,130 69,250	57	1	*****	9		1		1	8
Schenectady, N. Y.	103, 774	26			12	1	4		2	1
Seattle, Wash	69, 250 103, 774 366, 445 28, 907		4		101		17			
Sanford, Me. San Francisco, Calif. Santa Barbara, Calif. Saratoga Springs, N. Y. Sault Ste. Marie, Mich. Savannah, Ga. Schenectady, N. Y. Seattle, Wash. Sheboygan, Wis. Sloux Falls, S. Dak. Somerville, Mass. South Bend, Ind. Southbridge, Mass. Spokane, Wash.	28,907	8	1 2		4 2		3 5			*****
Somerville, Mass	16,887 88,618	27			16		6		4	1
South Bend, Ind	70, 967 14, 465	16	1		1		4		3	3
Southbridge, Mass	14,465	4	1	*****	38			*****		
Springfield, Ill	157, 656 62, 623	18			99					
Spokane, Wash. Springfield, III. Springfield, Mass. Springfield, Ohio. Stamford, Conn.	62,623 108,668 52,296	34	2		29	1	9		1	2
Springfield, Ohio	52, 296	8			4		1		1	3
Stamford, Conn	31,810 28,259	10	3		9 6		1			
Stillwater, Minn	110, 198	3	2							
Stockton, Calif	1 10, 198 36, 209 47, 167 158, 559	13	2	1	5		1			
Superior, Wis	47, 167	11			14		5		8 5	1
Tacoma Wash	158, 559	49	1 2	*****	44		7 5	*****	0	
Stamford, Conn. Steubenville, Ohio. Stillwater, Minn. Stockton, Calif. Superior, Wis. Syracuse, N. Y. Tacoma, Wash. Taunton, Mass. Terre Haute, Ind. Tiffin, Ohio.	117, 446 36, 610 67, 361 12, 962	27								
Terre Haute, Ind	67,361	. 38			21		4			5
Tiffin Ohio	12 962	8			10	1 1				

Population Apr 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	deaths		Measles.		Scarlet fever.		Tuber- culosis.	
City,	(estimated by U. S. Census Bureau).	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
Toledo, Ohio	202,010	83	4	1	183	2	30		2 3	
Topeka, Kans	49, 538	15			2				3	1
Traverse City, Mich	14,090	1			4					
Trenton, N. J	113, 974	143	3	1	2		3		6	3
Troy, N. Y	78,094	43	3	3	1		1			1
Vallejo, Calif	13,803	3	1	*****						
Vancouver, Wash	13,805		1				11			
Virginia, Minn	15, 954						1			
Waco, Tex	34,015	14	1							
Waltham, Mass	31,011	11	1				1			
Washington, D. C	369, 282	135	9	1	21		31		26	13
Waterbury, Conn	89, 201		3	1	3		35	1	1	1
Watertown, Mass	15, 188	7			12		3		2	
Watertown, N. Y	30, 404						1			1
Wansan, Wis	19,666	6			62	1			1	
Westfield, Mass	18,769	5			3		2			
West Hoboken, N. J.	44, 386	14	5	1	13		ī			4
West New York, N. J.	19,613	3		-	11				2	
West Orange, N. J.	13, 964	1	1		3			*****	-	
Wheeling, W. Va	43,657	21	î		27	1			1	
White Plains, N. Y.	23,331	3	i	1	48	•	1		•	
Wichita, Kans	73, 597	19			1	*****	1		1	
Wilmington, Del	95, 360	30	3	1	20		1			
Winchester, Mass	10,812	2	i	•	20					1
Winona, Minn	1 18, 583	3			3		1			
Winston-Salem, N. C.	33, 136	17	3		9				4	2
Winthrop, Mass	13, 105	6	0	*****	7	*****	2	*****		-
Woburn, Mass	16,076	3	*****				-	*****		
		68	1	1	1		22		7	
Worcester, Mass	166, 106	68	1	1	1					•
akima, Wash	22,058		******	*****		*****	7	*****	4	*****
Yonkers, N. Y	103,066	20	1	*****	17		1			2
Zanesville, Ohio	31,320	15					3	*****	1	2

¹ Population Apr. 15, 1910.

FOREIGN AND INSULAR.

PLAGUE ON VESSEL.

Steamship "Alps Mary"-Further Development of Plague-London.1

A second fatal case of plague occurring among the crew of the steamship Alps Maru in the port of London, England, was reported March 5, 1920.

CEYLON.

Influenza and Pneumonia-July-September, 1919.2

During the third quarter of the year 1919, 37,512 deaths from all causes were registered in Ceylon, giving an annual death rate for the three months of 31.5 per 1,000 inhabitants. During the corresponding quarter of 1918 the death rate was 22.4 per 1,000; the average for third quarters for the period 1909-1918 was 27.7 per 1,000. The number of deaths attributed to influenza during the third quarter of 1919 was 3,897, showing a decrease on the number registered during each of the two preceding quarters-i. e., second quarter, 5,498; first quarter, 12,324. The deaths from pneumonia numbered 3,419, being more than the number registered during either of the two previous quarters. The estimated population of the island on the last day of the quarter was 4,743,672. The figures given are taken from the report of the registrar-general of marriages, births, and deaths of Cevlon for the third quarter of 1919.

Number of deaths from all causes and from influenza and pneumonia in Ceylon, July-September, inclusive, 1919.

District.	Popula- tion.	Total deaths, all causes.	Deaths, influ- enza.	Deaths, pneu- monia.	Total deaths, influenza and pneumonia combined.
Colombo	705,638	4,402	394	260	654
Negombo.	191,472	1,073	100	17	117
Kalutara	312,877	2,257	150	121	271
Kandy	440,751	4,285	325	591	916
Matale	107,591	1,308	85	191	276
Nuwara Etiya	170,217	2,534	347	899	1,246
Galle	326,028	2,492	405	23	428
Matara	258, 027	2,472	223	24	247
Hambantota	111,894	1,352	69	14	83
Jaffna	341,916	1,818	82	183	265
Mannar	22,939	229	1	20	21
Mullaittivu	17,007	155	1	49	50
Batticaloa	163,751	2,114	668	119	787
Trincomalee	30,535	166		36	36
Kurunegala	307,324	2,772	86	95	181
Puttalam	37,682	243		24	24
Chilaw	96,127	469	6	18	24
Anuradhapura	84,729	734	51	14	65
Badulla	221,078	3,033	690	481	1,171
Ratnapura	172,232	1,742	143	114	257
Kegalla	262,582	1,862	71	126	197
Total	4,382,397	37,512	3,897	3,419	7,316

Public Health Reports, Mar. 26, 1920, p. 798.
 Public Health Reports, Oct. 24, 1919, p. 2415, and Dec. 5, 1919, p. 2816.

GAMBIA.

Influenza-1918.

Information received relative to the outbreak of influenza in the Colony of Gambia. West Africa, in 1918 shows that the first cases reported occurred in passengers on the steamship Prah from Freetown, Sierra Leone. The Prah left Freetown August 25, arriving at Bathurst August 29, 1918. On August 30 influenza developed in one of the three European passengers on the vessel, the other two subsequently developing the disease, and a fatal case of pneumonia occurred in a member of the crew. Scattered cases of influenza were reported during the week ended September 7, and by the end of the week the disease became general, spreading with great rapidity. At Bathurst it was estimated that 3,000 persons applied at the hospital for treatment, but records were not kept, practically every official of the hospital being attacked by the disease. Among the European population of 68 persons there were 49 cases with 5 fatalities. Among the native population, stated to be about 8,000, 317 fatal cases of influenza were reported. The epidemic terminated abruptly by the end of September, with a few prolonged cases of bronchopneumonia.

In the Protectorate the total number of deaths from influenza during the period of the epidemic is given as 7,813. The estimated population is 154,000.

The medical officer of health of the Gambia Colony states in his annual report that the "disease has proved to be most startling in its effects on the Gambian native. Individuals who prior to an attack were strong, burly, healthy persons, in a few days became emaciated wrecks of humanity, barely able to crawl, and unable to undertake the slightest amount of exertion. * * * The fact that influenza is a new disease among these people may in some way help to explain the very marked symptoms."

MEXICO.

Yellow Fever-Merida-Quarantine at Mexican Ports.

The occurrence of a case of yellow fever was reported March 20, 1920, at Merida, State of Yucatan, Mexico. On the same date quarantine was stated to have been put in force at Vera Cruz and other Mexican ports against the port of Progreso, Yucatan.

VIRGIN ISLANDS.

Contagious Diseases-February, 1920.

The occurrence of contagious diseases in the Virgin Islands during the month of February, 1920, was reported as follows:

	Cases.	Remarks.		Cases.	Remarks.
In St. Thomas and St. John: Charcroid. Chicken pox. Gonorrhea. Malaria. Mumps. Sprue. Syphilis. Tuberculosis (pulmonary). Whooping cough.	18 1 9 1 2 1 9 3	9 imported. 8 imported. Imported. Do. 3 imported. 1 imported.	In St. Croix: Dysentery (entamebic). Filariasis. Gonorrhea. Influenza. Mumps. Syphilis. Tuberculosis. Trachoma. Yaws.	4 13 1 3 1 14 14 1 3 1	

LEPROSY.

A case of leprosy was notified in the Virgin Islands, March 8, 1920.

INFLUENZA.

The following information was taken from reports received during the week ended April 2, 1920:

Place.	Date.	Cases,	Deaths.	Remarks.
Algeria:				
Departments-			1	
Algiers	Jan. 21-31	24		
Constantine	do			
Oran	do	10		
Brazil.				
Bahia	Feb. 1-7	1	1	
Bulgaria:				
Sofia	Feb. 2-8		1	Present.
Canada:				- I Could
British Columbia—	_			
Prince Rupert	Feb. 15-21	60	2	
Victoria	Mar. 6-13	-	4	
Manitoba-	Mai. 0-13	******		
Winnipeg	Dec. 28-Mar. 6	69	23	
Nova Scotia-	Dec. 25-3141. 0	09	20	
Halifax	Mar. 7-13	2		
Sydney			********	
Yarmouth	do	2	********	
Ontario-	do	2	********	
Fernie	Feb. 28-Mar. 6			Present.
Fort William and Port	Mar. 7-13		2	rresent.
Arthur.	Mar. 4-10	5	2	
Hamilton	Mar. 14-20			
Sarnia	Mar. 7-20		1	
Toronto			31	
Windsor	Mar. 6-13	*******	1	
Prince Edward Island—	Mar. 0-13		1	
Summerside	36 0 10			Description
Quebec-	Mar.6 -19		********	Present.
	M 7 10			De
Montreal	Mar. 7-13		*********	Do.
Quebec	Feb. 28-Mar. 6	393	2	
Saskatchewan-				
Saskatoon	Mar. 7-13	15	********	
Ceylon:				
Colombo	Feb. 1-7	*******	11	
China:				
Hankow	do			1 death, acute pneumonia, in a
2.2.				foreigner.
Cuba:				
Cienfuegos			1	
Sagua la Grande	do	3	1	

INFLUENZA—Continued.

Place,	Date.	Cases.	Deaths.	Remarks -
Czecho-Slovakia:				
Prague	Jan. 25-Feb. 21		64	
France:				
Bordeaux	Feb. 2-8		11	Donnet
Cette				Present.
Havre			2 2	
Limoges	Jan. 1-31		1 12	
	Jan. 22-31	******	156	
Great Britain: England and Wales	Pob 99 99		178	In 96 great towns. Population,
England and wates	Feb. 22-25	*******	1/5	aggregate, 16,577,344.
London	do		- 38	Greater London, including Outer
London		*******	30	Ring, 47 deaths.
Scotland				October-December, 1919: Deaths,
Etotiana				38; with complications, 97
				deaths. In 16 principal towns.
				Population, 2,416,900.
Do	Feb. 22-28		4	With complications, 10 deaths.
			-	In 16 principal towns.
Honduras:				
San Pedro Sula	Jan. 1-31			Present.
Tegucigalpa			1	
India:				
Rangoon	Jan. 25-Feb. 7		29	
Italy:				
Leghorn	Feb. 23-29			-
Turin	Jan. 4-Feb. 15		********	Do.
Japan:				
Nagasaki	Feb. 9-23			Do.
Mexico:	T. 1			D.
Acapulco	Feb. 15-21			Do.
Ciudad Juarez			2 3	
Saltillo				
Vera Cruz	Mar. 8-14		2	
Norway: Christiania	Feb. 15-28		3	
Panama:	Feb. 10-20		3	
Colon	Mar. 1-7	9	1	0.00
Spain:	Mai. I-I	9		
Corunna	Feb. 7-Mar. 3		4	
Madrid			311	
Tunis:	Visit I VI		044	
Tunis	Feb. 23-29		3	
A 188807				

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER. Reports Received During Week Ended Apr. 2, 1920.1

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks,
India				Jan. 4-24, 1920: Deaths, 6,877.
Rangoon	Jan. 25-31	- 1	1	Jan. 24-29, 1920; Case, 1.
Batavia Philippine Islands:	Jan. 24-29	1	1	Jan. 24-25, 1925. Case, 1.
Manila	Feb. 8-14	1		Feb. 8-14, 1920: Cases, 92; deaths
AlbayAmbos Camarines	Feb. 8-14do	60 12	3 39	61.
Antique	do	12 16	10	
Siam: Bangkok	Jan. 4-10	26	18	

From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received During Week Ended Apr. 2, 1920-Continued.

PLAGUE.

Place.	Date.	·Cases.	Deaths.	Remarks.
Ceylon:	Feb. 1-7	8	6	
Chile: Antofagasta	Feb. 8-14	1		
Ecuador: Guayaquil	Feb. 1-28	23	3	
IndiaBombay	Jan. 25-31	1	2	Jan. 25-31, 1920: Cases, 5,491; deaths, 4,377.
Rangoon Java:	Jan. 23-Feb. 7	72	66	
East Java	Jan. 8-14	2	2	Jan. 8–14, 1920: Cases, 2; deaths, 2,
Straits Settlements: Singapore	Jan. 25-31	2	1	
On vessel: S. S. Alps Maru	Mar. 5	1	1	Additional.

SMALLPOX.

Algeria:			1	1
Department—				
Algiers	Jan. 21-31	24	Laure Laure 1 1	1
Oran	do	49		
		30		
Argentina: Rosario	Jan. 1-31		1	
	Jan. 1-31	******	1	!
Bolivia:	Fab 15 01			
La Paz	Feb. 15-21	2	2	
Brazil:				
Bahia	Feb. 1-7	37	34	1
Canada:			1	
Manitoba-				
Winnipeg	Feb. 22-Mar. 6	4		
New Brunswick—				1
St. John	Mar. 7-13	1		
Ontario-			1	
Hamilton	Mar. 14-20	2		
Ottawa	Mar. 7-20	3		1
	do	68	2	1
Quebec-		00	1	
Montreal	Mar. 7-13	1		1
Quebec	Feb. 28-Mar. 6	2	*********	1
	reo. 28-mar. 0		*********	
Ceylon:	Feb. 1-7	5		
Colombo	F en. 1-1	0	********	
China:	7 10 01			Descent
Chungking	Jan. 18-24			Present.
Dairen	Feb. 3-9	1	*********	P-
Nanking	Jan. 25-Feb. 7		********	Do.
Tientsin	Feb. 1-7	1	********	
Chosen:	_			
Chemulpo	Jan. 1-31	2	1	ł .
Seoul	do	48	12	
Colombia:				
Barranquilla	Feb. 14-28	350	1	
Crecho-Slovakia:	1			
Prague	Feb. 8-14	1		
Egypt:				
Cairo	Jan. 1-7	4	2	
	do	11	3	
rance:				
Paris	Jan. 22-31	2		
reat Britain:		-		
	Feb. 29-Mar. 6	3		
	Feb. 22-28	4		
ndia				Jan. 4-10, 1920: Deaths, 2,981.
	Jan. 25-31	13	2	Van. 1 10, 1020 Presenting 2, 0021
	Jan. 8-14	2	2	
	Jan. 25-Feb. 7	37	14	
taly:	van. 20-1 CD. 1	01	- 44	
Genoa	Feb. 2-8	4		
	Jan. 1-Feb. 15	1	*********	
	Jan. 1-Feb. 15	. 1		
ava:				ton 16 00 1000 Cores 104
West Java	10.00			Jan. 16-22, 1920: Cases, 104
	Jan. 16-22	4	4	deaths, 13.
lesopotamia:	V 04 00	-		
Bagdad	Jan. 24-30	2		

Reports Received During Week Ended Apr. 2, 1920-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico: Chihuahua. Mexico City. San Luis Potosi. Portugal: Lisbon. Portuguese East Africa:	Feb. 15-Mar. 7 Feb. 15-21 Mar. 1-14 Feb. 1-21	1 1 4	31	Feb. 1-7, 1920: Present in inte-
Chai-Chai	Feb. 8-18 Feb. 22-28.	1 2	5 4	rior.
Tunis:	Feb. 22-29		1	

TYPHUS FEVER.

Algeria: Departments—				
Constantine	Jan. 21-31	16		
Oran	do	16		
Bolivia:				
La Paz	Feb. 15-21		2	
Brazil:	2001 10 2111111111		1 -	
Porto Alegre	Feb. 1-7		1	
Bulgaria:			- 1	
Sofia	Jan. 12-18	1		
Varna	Feb. 2-8	110		
China:				A CONTRACTOR OF THE PARTY OF TH
Tientsin	Feb. 1-7	1		
Czecho-Slovakia:		-		
Prague	Jan. 25-Feb. 7	2	1	
Egypt:				
Cairo	Jan. 1-7	8	3	
Japan:				
Nagasaki	Feb. 9-22	2		
Mexico:				
Mexico City	Feb. 8-21	37		
San Luis Potosi	Mar. 1-7			Present.
Spain:				
Madrid	Jan. 1-31		1	
Cunis:				
Tunis	Feb. 23-29	1		

YELLOW FEVER.

Mexico: Merida	Mar. 20	1	 ~

Reports Received from Dec. 27, 1919, to Mar. 26, 1920. CHOLERA.

China: Amoy	Nov. 4-17		2	Oct. 20-Nov. 16, 1919: Cases,
Chemulpo	Oct. 1-31	6	4	3,525; deaths, 3,144. Aug. 15-
FusanProvinces—	do	34	30	Nov. 16, 1919: Cases, 15,192; deaths, 9,823.
Keiki	Aug. 15-Nov. 16	224	135	death, 5,525
Kogen	do	4, 015	2,770	
North Chusei	do	1	1	
North Heian		3, 196 497	2, 434 275	
North Keisho	do	63	35	
North ZenraSouth Chusei		1,326	692 590	

Reports Received from Dec. 27, 1919, to Mar. 26, 1920-Continued.

CHOLERA-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
hosen (Korea)—Continued.				
Chosen (Korea)—Continued. Provinces—Continued. South Heian		0.001		
South Heian	Aug. 15-Nov. 16	3,031	1,858 551	
South Kankyo	do	870 318	156	
South Keisho	do	657	288	
Greece:				
Saloniki	Oct. 10	1		0-4 10 Dec 27 1010 Decthe
ndia	Nov 0 0	·····i	1	Oct. 19-Dec. 27, 1919; Deaths 23,388.
Bombay Do	Nov. 2-8	2	2	20,0 XX
Calcutta	Oct. 26-Dec. 27	181	166	-
Do	Dec. 28-Jan. 31	73	71	
Madras	Nov. 23-Dec. 27 Dec. 28-Feb. 7	14	5 6	
Do	Dec. 28-Feb. 7	16 12	9	
Rangoon	Nov. 30-Dec. 27 Dec. 28-Jan. 17	12	2	
ndo-Chipa:	Dec. 25 Juli. 11			
Saigon	Oct. 27-Nov. 23	5	4	
Japan:	N 01 00			
Kobe	Nov. 24-30	2		For entire island: Oct. 22-Nov
Taiwan	Nov. 10-20	1	1	30, 1919: Cases, 651; deaths, 38
ava:				
East Java			********	Oct. 5-11, 1919: One case, 1 death
				At Pasoeroean. Nov. 5-Dec. 25, 1919; Cases, 13
West Java	Nov. 5-Dec. 25	17		Nov. 6-Dec. 25, 1919; Cases, 1
Batavia Philippine Islands:	Nov. 5-Dec. 25			
Manila	Nov. 2-Dec. 27	20	10	
				Nov. 2-Dec. 27, 1919: Cases 1,574
Albay Ambos Camarines Antique	Nov. 2-Dec. 27	339	240	deaths, 1,151.
Ambos Camarines	Nov. 2-Dec. 20	66	34	
Antique	Nov. 2-Dec. 27	160	113 28	
Batangas	do	34	27	
Bohol		35	20	
Cagayan	Nov. 2-8	6	5	
Cavite	Nov. 2-Dec. 6	25	16	
Cebu	Nov. 2-Dec. 20	23	14	
Davao. Ilocos Notre	Nov. 9-15	6	4	
Ilocos Notre	Nov. 2-29	42	40	
Ilocos Sur	Nov. 2-22	18	15	* .
Iloilo	Nov. 2-Dec. 20	55 167	33	
Isabela	Nov. 2-Dec. 13	23	17	
Laguna Mindoro	Nov. 2-29. Nov. 2-Dec. 20. Nov. 2-Dec. 13. Nov. 2-Dec. 20. Nov. 2-Dec. 20. Nov. 2-Dec. 13. Nov. 2-Dec. 27. Nov. 2-Dec. 27.	81	30	
Mountain	Nov. 2-Dec. 13	6	4	
Mountain Occidental Negros	Nov. 2-Dec. 27	100	53	
Pangasinan	1 4101. BU-1/00. BU		46	
RizalSorsogon	Nov. 2-Dec. 13	41	15	
Sorsogon	Nov. 2-Dec. 13	208	139	
Tarlac	Nov. 2-22	11	11 35	
Tayabas	Nov. 9-15	60	5	
Union Provinces		9		Dec. 28, 1919-Feb. 7, 1920: Case
Albay		30	17	635; deaths, 412.
Ambos Camarines		156	99	000, deaths, 112
Antique	do	191	42	
Batangas	do	19	12	
Cavite	Jan. 11-17.	1	1	
IloiloIsabela	Dec. 28-Jan. 3 Jan. 11-17	9	2	
Isabela	Jan. 11-17	6 2	3 2	
Laguna	Dec. 28-Jan. 3	24	11	
Mindoro	Jan. 4-24	11	6	-
Mountain Occidental Negros Palawan	Ian 4-17	21	19	
Polowor	Jan. 11-Feb. 7	33	-19	-
Rizal Samar	Feb. 1-7	3		
Samar	Jan. 4-24	44	30	
Sorsogon	do	51	40	
Sorsogon	do	23	19	
Poland: Garwolin		l		Present in November, 1919.
Commolin				i resent in November, 1919.

Reports Received from Dec. 27, 1919, to Mar. 26, 1920-Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia:				+
Novorossisk Odessa	Nov. 8-11 Oct. 25-Nov. 7	93		
Siam: Bankok	Dec. 7-27	163		Oct. 5-Dec. 15, 1919: Deaths,
Straits Settlements:	Dec. 28-Jan. 3 Oct. 5-Dec. 27	15		1,080.
Singapore Do Sumatra:	Dec. 28-Jan. 17	4	2	
Deli	Oct. 1-31	1	1	
	PLA	GUE.		
Argentina:			1	*******
Rosario Brazil:	Dec. 1-31		7	
Bahia	Nov. 9-15	1	1	
Porto Alegre	Jan. 25-31 Nov. 1-30	1	1 3	
Rio de Janeiro	Nov. 1-30 Nov. 2-Dec. 27	9	1 4	
Do	Jan. 11-17	1		1 - 3
Kisumu	Sept. 28-Nov. 1	6	6	Dec. 14-20, 1919: Present in vi- cinity.
Ceylon: Colombo	Oct. 26-Dec. 27	36	35	24 7. 9
Do	Dec. 28-Jan. 31	25	4	
Chile: Antologasta	Dec. 8-14	1		
China: Hongkong		1		
Ecuador: Guayaquil	Nov. 1-31	2		
Egypt	Jan. 1-31	8		Inn 1-Ten 95 1010: Cares 867.
Cities—			1.4	Jan. 1-Dec. 25, 1919: Cases, 867; deaths, 469. Jan. 1-Feb. 19, 1920: Cases, 46; deaths, 32. From vessel Rachid Pacha.
Alexandria	Dec. 3	1	1	From vessel Rachid Pacha.
Port Said	Feb. 13 Feb. 1-15	1	·····i	6.17
Province— Assiout	Nov. 15-21 Jan, 13-Feb, 17	30	17	
Greece: Saloniki.	Oct. 6-Pec. 21	19	16	
Earli: Kaloha	Feb. 23	1	. 1	
India	FC9, 20			Oct. 19-Dec. 27, 1919; Cases.
Bombay	Oct. 19-Dec. 27	6	6	Oct. 19-Dec. 27, 1919; Cases, 31,542; deaths, 23,443. Dec. 28,
Do	Jan. 4-10	1	********	1919-Jan. 24, 1920: Cases, 13,012;
Calcutta	Nov. 9-29	1 3	1 2	deaths, 10,186,
Do	Jan. 11-17	2		
Madras Presidency	Nov. 9-Dec. 27	1,068	704	
Do Madras	Dec. 28-Feb. 7 Jan. 25-Feb. 7	2, 186	1,572	
Rangoon.	Nov. 2-Pec. 27	29	27	Oct. 19-Nov. 1, 1919: Cases, 10;
Do	Dec. 28-Jan. 24	58	55	deaths, 7.
Indo-China: Saigon	Oct. 27-Dec. 7	11	9	
ava:				Cant 80 Dec 21 1010: Cases
East JavaSurabaya	Jan. 1-7	9	9	Sept. 28-Dec. 31, 1919: Cases, 1,500; deaths, 1,499. Surabaya Residency, Jan. 1-7, 1920; Cases, 9; deaths, 9.
Mesopotamia: Bagdad	Jan. 3-9	1	1	
Peru:				
Callao	Nov. 1-30 Pec. 29-Jan. 17	00	3	
Paita. Salaverry (Trujillo) Do.	Nov. 23-1 ec. 21 Dec. 29-Feb. 1	23 9 19	17	Present in surrounding country. And in vicinity.
Senegal:			°	and an vicinity.
Dakar	Nov. 1-30		146	Including Dakar and vicinity.

Reports Received from Dec. 27, 1919, to Mar. 26, 1920—Continued.

PLAGUE-Continued.

Place,	Date.	Cases.	Deaths.	Remarks.
Siam: Bangkok	Dec. 14-20	4	2	
Straits Settlements: Singapore	Oct. 26-Dec. 27	7	6	
Do	Jan. 4-17	2	1	
Syria: Beirut	Dec. 22	29		
Turkey: Constantinople	Nov. 14-Dec. 20	11		Present Dec. 11, 1919. Nov. 14- 20, 1919: Present in vicinity.
On vessel:				20, 1010. Tresent in vicinity.
S. S. Alps Maru	Feb. 28	1		At Port of London, England. Vessel left Yokohama, Japan, Dec. 3, 1919; arrived Suez Jan. 21, 1920. Destination, Ham-
S. S. Kaisar-i-Hind	Nov. 28	3		burg. At Port Said, Egypt. From Bombay, Nov. 15, for London.

SMALLPOX.

			1	
Algeria:				
Department—		1		
Algiers	Nov. 11-Dec. 31		********	
Do	Jan. 1-20			
Constantine	Nov. 11-Dec. 31			
Do	Jan. 1-20	32		
Oran		90		
Do				
South Territory				
rabia:				
	Dec 04 00	1	1	
Aden	Dec. 24-30			
Do	Jan. 6-20		3	
Belgium:	_	1		
Brussels	Dec. 28-Jan. 3		1	
Bolivia:		1		
La Paz	June 29-Dec. 27	1	216	Dec. 29, 1918-June 28, 1919: Cases,
Do	Dec. 28-Feb. 7	19	30	86; deaths, 44. Dec. 14-20,
10	Dec. 20 Feb. 1	10	00	1919: Cases, 7, deaths, 5.
		1		1919. Cases, 1, deaths, 5.
Brazil:	0-4 00 11 00		1 000	
Bahia	Oct. 26-Nov. 22		1,022	
Do	Dec. 28-Jan. 31		314	
Para	Feb. 8-14		2	
Pernambuco	Nov. 10-Dec. 28	123	9	
Do	Dec. 29-Jan. 11	82	4	
Rio de Janeiro		429	119	
nio de Janeiro	Dec. 28-Jan. 17		13	
Do	Nov. 24 30			
Santos	Nov. 24-30		1	
Do	Jan. 5-18		2	
anada:		1		
British Columbia—				
Vancouver	Nov. 30-Dec. 6	1		
Do	Jan. 4-17	1		
Manitoba-	van			
	Jan. 11-17	9		
Winnipeg	Jan. 11-1/	-		
New Brunswick—		-		
St. John	Jan. 29-Mar. 6	7		
Nova Scotia-				
Halifax	Dec. 21-27	2		
Do		4		
Sydney		1		
Do	Dec. 28-Mar. 6			
	Dec. 20-Mai. 0	20		
Counties—	D - 11 00			Description
Cumberland	Dec. 14-20		********	Present.
Inverness	do			Do.
Pictou	do			Do.
Ontario				Nov. 1-29, 1919: Cases, 1,673.
Ontain to	****************			Nov. 30-Dec. 6, 1919: Cases, 125.
			1	in 45 localities, exclusive of
				Dysart and Toronto, Dec. 1-
				31, 1919: Cases, 1,414; deaths,2
				Dec. 28, 1919-Mar. 6, 1920;
- A				Cases, 1.997; deaths, 32.
Fort William and Port				
Arthur	Jan 25-Feb 14	5		
At tilling				

Reports Received from Dec. 27, 1919, to Mar. 26, 1920-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Ontario-Continued.			1	Oat Non 1010, Com 2
Gloucester County				OctNov., 1919: Cases, 3.
Hamilton	Dec. 14-20	3 28	*********	
Do	Jan. 4-Mar. 13	1		
Kingston Do	Jan. 4-Mar. 13 Dec. 21-27 Dec. 28-Mar. 6	11		1
North Bay	Inn 11-Mar 6	4		
Ottawa	Dec. 14-20 Dec. 28-Feb. 28 Dec. 21-27 Dec. 28-Mar. 6	i		1
Do	Dec. 28-Feb. 28	16		l .
Peterborough	Dec. 21-27	3		1
Do	Dec. 28-Mar. 6	38	2	
Prescott		1		1
Sault Ste. Marie	Dec. 7-27. Dec. 28-Jan. 3	1		
_ Do	Dec. 28-Jan. 3	1		
Toronto	Dec. 7-27 Dec. 28-Feb. 28	727	5	
Do	Dec. 28-Feb. 28	773	9	
Windsor	Dec. 14-27	2		
Prince Edward Island-	Feb. 14-20	3		In one family.
Summerside	F eb. 14-20	0		in one family.
Quebec— Bonaventure and Gaspe	Jan 1-Feb. 28	28		Counties,
Montreal	Dec. 7-27	3		Countries,
Do	Jan. 18-Mar. 6	14		l
Quebec	Dec. 7-27	4		
Do	Dec. 7-27	13		
Saskatchewan		-		
Moosejaw	Dec. 28-Jan. 31			ž.
Saskatoon	Dec. 14-20	1		
Cevlon:				
Colombo	Nov. 16-Dec. 13	10	9	
Do	Dec. 28-Jan. 31	4	1	
China:				Posset Des 00 Four deaths
Amov	Nov. 4-Dec. 22			Present. Dec. 22: Four deaths.
Do	Dec. 30-Jan. 5 Nov. 2-Dec. 27	1	********	Present.
Canton	Nov. 2-Dec. 27	******		Do.
Do	Dec. 28-Jan. 10 Jan. 4-10	55		100.
Chungsha	Jan. 4-10	00		Do.
Chungking	Dec. 28-Jan. 17	******		Do.
Foochow	Nov 16-Dec 27	*******		Do.
Do	Nov. 16-Dec. 27 Dec. 28-Jan. 24			Do.
Mukden	Jan. 18-21			Do.
Nanking	Dec. 6-27			Do.
Do	Dec. 28-Jan. 24			Do.
Shanghai	Dec. 22-28	2		
Chosen (Korea):				
Chemulpo	Dec. 1-31	1	1	
Fusan	Oct. 1-Dec. 31	12	1	
Seoul	do	19	4	
Colombia:	N		-	
Barranquilla	Nov. 16-Dec. 20	50	3	Stated to be epidemic, Jan. 18-24
Do	Jan. 11-Feb. 14			1920, About 200 cases, Feb
				1-14.
Cuba:				1-11.
Habana	Jan. 31	4		Children living in same house.
Egypt:	Jan. St			California il ving in sunte monsey
Alexandria	Nov. 12-Dec. 16	32	22	
Do	Jan. 1-Feb. 11	35	14	
Cairo	Oct. 1-Dec. 23	64	31	
Port Said	do	13	6	
Finland:		-		
Provinces				July 16-Dec. 31, 1919: Cases, 83.
Abo Och Borneborg	Nov. 1-15	1		
Nyland	Nov. 1-15 July 16-Dec. 15	29		
St. Michael	Dec. 1-15	7		
Tavastehus	July 16-Dec. 31	7		
Vasa	Dec. 1-31	2		4.5
Viborg	July 16-Dec. 31	37		
France:	V 1 10			
Paris	Jan. 1-10	1	2	Oat 5 15 1010 Cases 20 In ad
Germany	•••••••	******		Oct. 5-15, 1919: Cases, 32. In addition to previously reported cases; Sept. 28-Dec. 6, 1919 Cases, 161 (exclusive of Prus
				sia).

Reports Received from Dec. 27, 1919, to Mar. 26, 1920-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:		-		
Saloniki Do	Nov. 10-Dec. 28 Dec. 29-Feb. 1	26 37	26 29	In vicinity: Drama, 1 case; Zago, ritzuni, 9 cases, 1 death; Serres- 1 case.
India				Oct. 19-Dec. 27, 1919: Deaths,
Bombay	Oct. 12-Dec. 20 Dec. 28-Jan. 24	46 36	11 13	3,421.
DoCalcutta		186	260	
Do	Dec. 28-Jan. 17	782	677	
Karachi	Doc 91-97	6	10	
Do		20 31	13	
Do	Dec. 28-Feb. 7	31	10	
Rangoon	Oct. 19-Dec. 27	51	18	
Do	Dec. 28-Jan. 24	24	7	
Indo-China: Saigon	Oct. 27-Nov. 23	2		
Italy:	000. 21-2101. 25	-		
Genoa	Jan. 5-11	1		Province: Nov. 17-Dec. 28, 1919:
Leghorn	Jan. 4-10	1		Cases, 15; deaths, 3. Jan. 12- 18, 1920: Cases, 13.
Messina	Nov. 10-Dec 28	55	8	Province of Messina: Dec. 14-
Do.	Nov. 10-Dec. 28 Dec. 29-Feb. 8	30	3	28, 1919; Cases, 68, Jan. 5-
				Feb. 8, 1920: Ca :es, 120; 1 death.
Milan	Oct. 1-Nov. 30 Dec. 28-Feb. 15	12	17	
Naples	Dec. 27-Feb. 9		3	
Palermo San Fratello	Dec. 1-28	49	5	
Do	Dec. 29-Feb. 8	27	1	
Trieste	Jan. 3-10	2		
Turin	Dec. 28-Jan. 4		*********	
Kohe	Dec. 15-21	1		
Kobe Nagasaki	Feb. 2-8	1	1 7	Entire island.
Taiwan Do.	Nov. 1-31	36 160	46	Entire isignid.
Java:	Jan. 1-01	100		
East Java				Sept. 28-Dec. 18, 1919: Cases, 34.
Residency— Surabaya	Oct. 25-Dec. 18	26		Jan. 1-7, 1920: Cases, 1.
Do	Jan. 1-7	1	*********	
West Java				Oct. 17-Dec. 25, 1919: Cases, 650;
Batavia	Oct. 17-Dec. 12	49	22	deaths, 151. Jan. 2-8, 1920: Cases, 78; deaths, 10.
Mesopotamia:	Jan. 2-8	1		Cases, 10, deaths, 10,
Bagdad	Jan. 10-16	3		
Mexico:				
Acapulco	Nov. 9-15	2 3	3	
Chihuahua. Do.	Jan 11-Feb 15	0	i	
Ciudad Juarez	Jan. 11-Feb. 7		2	
Guada!ajara	Dec. 1-31	1		
Mexico City	Jan. 1-31 Nov. 16-Dec. 20	11	********	
Salina Cruz	Feb. 1-15	6		
San Luis Potosi	Dec. 14-20		1	
Do	Jan. 18-29	6	6	
Tehuantepec	Dec. 25-31			
Do Newfoundland:	Jan. 1-1 00. 10	0.5		
St. Johns	Dec. 20-26	3		Dec. 13-26, at outports, 6 cases.
Do	Dec. 27-Mar. 5	13		Present at 8 other localities. Outports, Dec. 27, 1919-Feb. 20, 1920: Cares, 22. Present at other localities.
Panama:				Side iocaminos
Colon	Dec. 15-21	1		
Portugal:			**	
Lisbon	Nov. 30-Dec. 27 Dec. 28-Jan. 31	******	55 68	
Oporto.		5	. 5	
Do	Dec 90 Inn 9	i		

Reports Received from Dec. 27, 1919, to Mar. 26, 1920-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portuguese East Africa				President in interior, in 5 dis-
Towns-	1			tricts, Nov. 9-Dec. 20, 1919,
Chinde	Dec. 28-Jan. 25	21		with 56 reported cases. In in-
Inham bane		7		terior, Dec. 28, 1919-Jan. 31,
Do		3		1920: Present.
Lourenco Marques		9		1
Mozambique		1 2		1
Quelimane		I Ã		
Do	Jan. 4-31	1		
Tete	Dec. 7-27	1	*********	
Siberia:	Dec. 1-21			
	Dec. 19-31	17	3	
Vladivostok	Dec. 19-31	11	3	
Spain: Barcelona	Nov. 6-Dec. 27		26	
	Dec. 28-Feb. 3		26	
Do		******	4	
Bilbao			6	
Cadiz			9	
Valencia		39		
Do	Dec. 28-Feb. 21	69	12	
Vigo	Nov. 18-Dec. 27	14	********	
Do	Dec. 28-Jan. 31	2	3	Jan. 11-17, 1920: Present in vicinity.
Sumatra:				vacanty.
Medan	Oct. 1-31	8		
Tunis:	000.1	_		to general and the second
Tunis	Dec. 23-29	1		
Do	Jan. 19-Feb. 22	6	3	
Turkey:	Jan. 19-Feb. 22	U		
Constantinople	Nov. 9-Dec. 14	27		
	Feb. 18-24	5	3	
Do	Feb. 18-29	9	9	
Union of South Africa:	0-1 1 0 01			
Johannesburg	Oct. 1-Dec. 31	21		
On vessel:				
S. S. Roggeveen		1		Vessel from Java; at Noumea,
				New Caledonia. Case left at Noumea. Vessel arrived at
				Sydney, Jan. 2, 1920.
S. S. Sarcoxie	Dec. 23	1		At Ponta Delgada, Azores, from
C. C. DHILDAIC		•		Rotterdam for New York.
S. S. Vestnorge	Ion 15	1		Mild. At Kingston, Jamaica,
e. e. vestnorge	Jan. 10			from Philadelphia, via Nor-
				folk.

TYPHUS FEVER.

Algeria: Departments—				
Algiers	Dec. 11-31	2		Algiers (city), Jan. 1-31, 1920:
Do	Jan. 11-20	ī		Cases, 1; deaths, 1.
Constantine	Nov. 11-Dec. 31	2		, .,,
Do		3		
Omn	Nov. 21-Dec. 11	5		
Ustria	1101. 21-Dec. 11			Sept. 7-Nov. 22, 1919: Cases, 17.
Vienna	Sept. 7-14	5		Dept. 1 1101. 22, 1010. Cases, 11.
	Sept. 1-14			
Belgium: Ghent	Jan. 25-31		2	
Bolivia:	Jan. 20-31	*******		
	June 29-Dec. 20	30	31	Dec. 29, 1918-June 28, 1919:
La Paz		10	01	Deaths, 52.
Do	Jan. 4-Feb. 7	10		Deaths, az.
Brazil:				
Ceara	Jan. 4-10	1		
Bulgaria:				
Sofia	Dec. 21-31	1	1	
Do		2		
Varna	Feb. 18	110		
Vratza	Jan. 25-31			Present. Also in vicinity.
anada:				
Ontario Province				Dec. 1-31, 1919: One case.
Chile:				
Antofagasta	Nov. 17-Dec. 14	14		
Santiago				Jan. 12-Sept. 30, 1919: Cases,
				5,153; deaths, 1,023: Outbreak
				in October, 1919.
Valparaiso	Nov. 9-Dec. 27	955	114	Dec. 1-13, 1819. Cases, 700;
Do	Dec. 28-Feb. 8		66	deaths, 18.

Reports Received from Dec. 27, 1919, to Mar. 26, 1920—Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Antung	Nov. 3-Dec. 14	2		
Czecho-Slovakia:				
Prague	Dec. 21-27	1		
Egypt:	W			11.42
Alexandria	Nov. 12-Dec. 16	6	1	
Do	Jan. 1-Feb. 11	31	8	
Cairo Port Said	Oct. 1-Dec. 23 Oct. 1-Dec. 16	113	46	
Esthonia	Oct. 1-Dec. 16	0	1	Feb 16 1020: Cases 7 500 to
Narva	Feb. 16	2 500		Feb. 16, 1920: Cases, 7,500 to 8,000. Estimated mortality, 40
Reval	do	2,500 2,500		per cent.
Finland:		-, 000		Pro state
Province-				
Viborg	July 16-31	2		
Germany				Oct. 5-Dec. 6, 1919: Cases, 10-
				civil population, 3; military, 4; repatriated soldiers, 3.
Great Britain:				
Belfast	Dec. 28-Jan. 3	1	1	
Glasgow	Nov. 30-Dec. 6	2		
Greece:				
Cavalla	Nov. 17-Dec. 28 Nov. 24-Dec. 28	4		
Drama	Nov. 24-Dec. 28	6		
Saloniki	Oct. 6-Dec. 21 Dec. 28-Feb. 1	*******	43	In vicinity, at Vertekep, 4 cases;
Do Thassos Island	Dec. 22-28	11	1	Zagoritzani, 1.
Zihna	do	1	********	zagoruzam, 1.
Hungary			*********	Aug. 25-Sept. 14, 1919: Cases, 6.
Italy:	T 00 00		*********	11ag. 25 20pt. 11, 1010. 0200, 0.
Brindisi	Dec. 22-28	1		
Naples Trieste	Jan. 19-25	2 3	1	
Do	Dec. 14-21	5	2	
Venice	Dec. 14-27 Dec. 28-Feb. 3 Nov. 17-Dec. 21	6	i	
Japan:	1401. 11-1500. 21			
Nagasaki	Dec. 1-28	4	2	
Do	Jan. 12-Feb. 8	2	ī	
Mexico:				
Chihuahua	Dec. 21-27	2		
Do	Jan. 11-17		1	
Mexico City	Nov. 16-Dec. 27	129		
Do	Dec. 28-Feb. 7	132	1	
Saltillo	Nov. 1-30	2	1	Present.
Do	Dec. 14-27 Dec. 28-Feb. 29			Do.
Paraguay:	Dec. 25-Feb. 25			100.
Asuncion	Nov. 30-Dec. 6	1		
Peru:	11011.00 2 001 01111	•		
Callao	Nov. 1-30		1	
Cerro de Pasco	Dec. 7-13	1		
Poland				Nov. 1-30, 1919: Cases, 11,264;
				deaths, 942. Including Province of Posen.
Galicia (Province)	Nov. 1-30	5,716	616	ince of Posen.
. Warsaw	do	107	19	Oct. 1-31, 1919: Cases, 129; deaths, 12.
Portugal:				14.
Lisbon	Dec. 6-12		2	
Oporto	Dec. 21-27	1	-	
Siberia:	Dec. 21 21	•		
Vladivostok	Dec. 25-31	23	13	
Spain:				
Barcelona	Nov. 20-26	7		
Bilbao	Dec. 22-31		1	
Corunna	Nov. 24-Dec. 7	2		
l'unis:	D . 11 00			4.
Tunis	Dec. 14-20	1		
Do	Dec. 29-Feb. 8	3	1	
Constantinople	Nov. 14-Dec. 27	49		
Constantinople	Feb. 8-14	25	1	
D0	FCU. 0-11	20		

Reports Received from Dec. 27, 1919, to Mar. 26, 1920—Continued. YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil: Bahia Mexico: Campeche Merida Do.	Oct. 26-Nov. 8 Dec. 20 Dec. 7-27 Dec. 28-Jan. 31	1 4 1	2	The cases were sent from Opi- chen, vicinity of Muna. One death in case from Muna. To- tal to Dec. 27: Cases, 47; deaths, 21.